HD Satellite Recorder
Digital Innovation Life

User's Manual

S4000HDPVR

ICECRYPT-HD
ICECRYPT
S4000HDPVR
High Definition Digital Satellite Receiver
HD
HDMI
DVB

ICECRYPT

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Precautions

1. Important Safety Instructions

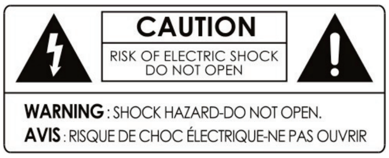
- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not reverse the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING : *To Prevent fire or shock hazard do not expose the set to rain or moisture.*

2. Notice

- These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
WARNING : SHOCK HAZARD-DO NOT OPEN.
AVIS : RISQUE DE CHOC ÉLECTRIQUE-NE PAS OUVRIR

To reduce the risk of electric shock, do not remove the cover (or back).
No user serviceable parts are inside.
Refer servicing to qualified service personnel.

The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product

3. Copyright

This manual is protected by copyright laws.
Copy, use and reproduction of this manual in part or whole without Manufacturer’s prior written approval are prohibited.

4. Disclaimer

The manufacturers, distributors and agents are not liable to any kind of damage caused by the use of the information contained in this manual.
The instruction and descriptions which this manual contains are based on the time of this manual's production.
The manufacturer constantly updates it with new functions and technology.
All the specifications are subject to change without prior notice.

5. Trademarks

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC

Manufactured under license from Dolby Laboratories.
Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Before You Begin

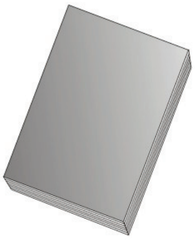
1. Main Features

- ✓ Twin Tuner HDTV PVR Receiver (H.264/ MPEG4 HD)
- ✓ Supports MPEG4 /MPEG2 - HD/SD, DVB-S2 /DVB-S
- ✓ Embedded Linux OS & Ethernet port
- ✓ Time Shifting, Recording & Playback with Internal HDD (SATA) / External HDD (USB 2.0)
- ✓ Simultaneously Records 2 Services whilst Watching 2 others (PIP)
- ✓ Powerful Extended EPG support and Event Recording
- ✓ Two USB 2.0 Host ports (MP3 Player & JPEG Viewer)
- ✓ Xvid file play back supported
- ✓ Ethernet port Supported
- ✓ Intelligent Blind Scan for both SD and HD TV & Multi-Satellite Search
- ✓ Premium Grade White VFD Display (12 Digit Alphanumeric)
- ✓ Premium Grade Universal remote control unit
- ✓ Multi-LNB Controlled by DiSEqC Control Version 1.0, 1.1, 1.2 and USALS
- ✓ On-Screen Display with Full Color & Resolution
- ✓ Favorite Groups
- ✓ Powerful Service List Manager for Favorites, Lock, Skip, Move, Edit and Delete
- ✓ Service Sorting by Alphabet, Transponder and CAS
- ✓ User Friendly & Multi-language Supported (OSD & Menu)
- ✓ Teletext / Subtitle Supported
- ✓ Maximum 10,000 Services(TV & Radio) Programmable
- ✓ Picture-in-Picture (PIP) & Multi-picture Display(*)
- ✓ Parental Lock / System Lock / Installation Lock
- ✓ HDMI Video & Audio Output (576i, 576p, 720p, 1080i)
- ✓ Supports Y/Pb/Pr(component) Output in HD
- ✓ CVBS(composite) Video & Audio Output via RCA
- ✓ CVBS, RGB, Y/C Video & Audio Output via TV SCRAT
- ✓ Optical Output for Digital Audio(SPDIF)
- ✓ MPEG-II Digital & Fully DVB Compliant
- ✓ Software & Service channel Database upgrade via USB & RS-232C port
- ✓ 1 Smart card reader and 2 Common Interface Slots
- ✓ 1W Stand-by Power Consumption

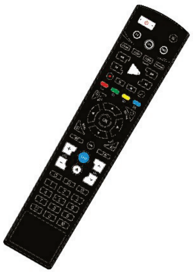
NOTE : (*) This feature(Multi-picture Display) will be supported later, by new s/w version by upgrading. Please refer to your local dealer / distributor.

2. Accessories

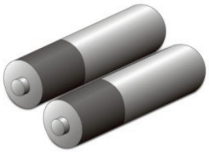
User's Manual



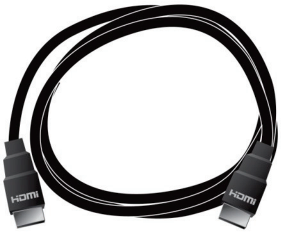
Remote Control



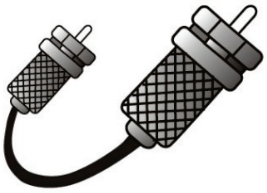
AAA size Batteries X2



HDMI Cable



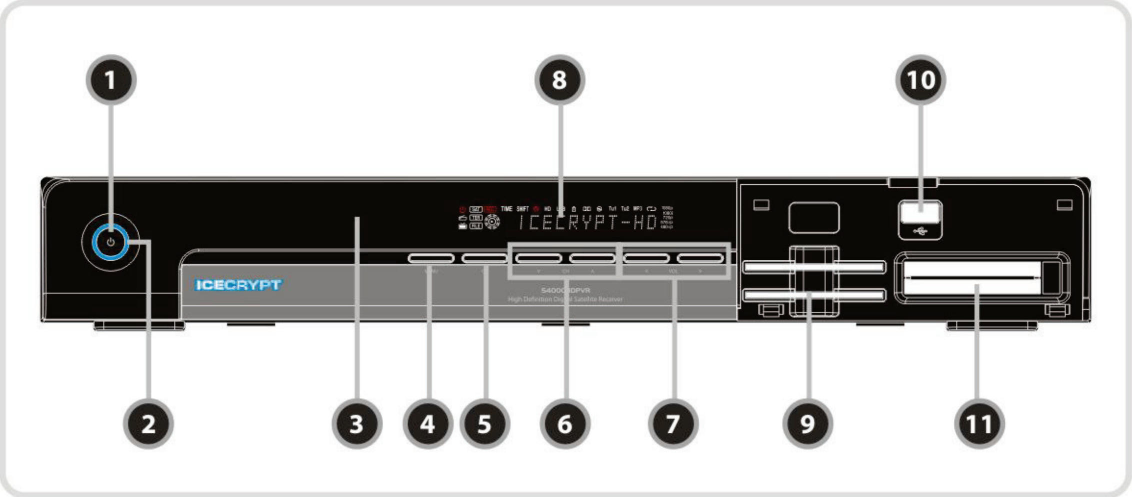
Loop through Cable



NOTE : If any accessories listed above are missing, contact the sales representative where you purchased this unit.

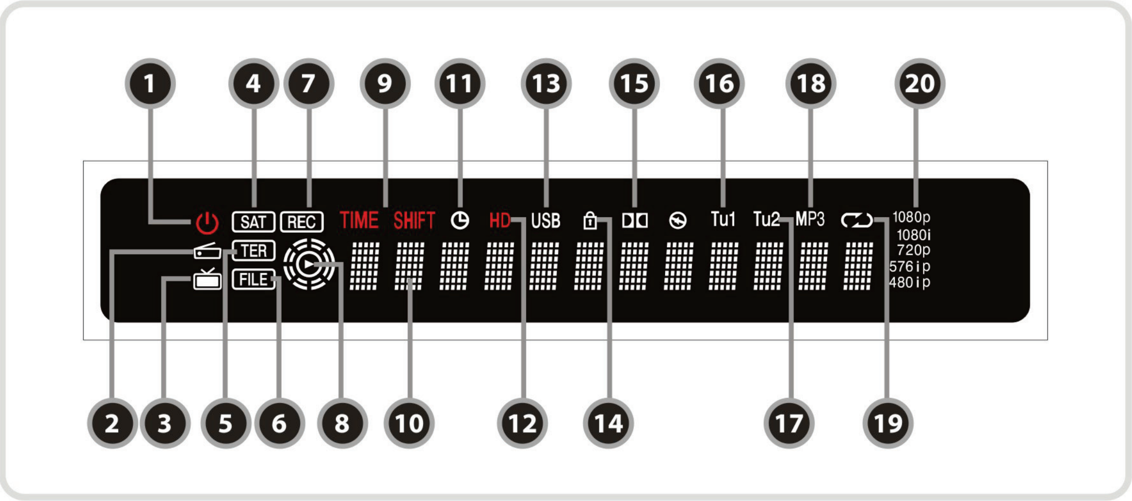
Hardware Description

1. Front Panel Configuration



1. ***POWER BUTTON*** **:** Press to switch between STANDBY and POWER ON modes**.**
2. ***LED indication*** **:** The LED lights up in running mode and standby mode. You can adjust LED Lighting Time and LED Brightness. ***(Main Menu >Configuration>Display Setting)***
3. ***Remote Sensor*** **:** Receives signal from remote controller.
4. ***MENU Button*** **:** Press to display the main menu or to move to the previous menu.
5. ***OK Button*** **:** Press to display the service list in non-menu mode and to select an item or confirm in menu mode.
6. ***CH Up/Down button*** **:** Press to change services in normal mode, or to move highlighted-bar in menu mode.
7. ***Vol Up/Down button*** **:** Press to change audio volume in normal mode or to navigate menu in menu mode.
8. ***VFD Display*** **:** The VFD consist of 12-digit letter and various icons. These letters and icon display the current status of receiver such as service name, service information and so on.
9. ***SMART CARD READER*** **:** Insert smart card for encrypted service access.
10. ***USB(Front)*** **:** Use it when connecting to external USB storage device.
11. ***PCMCIA*** **:** To receive pay-tv service you need a CA-Module and a smart card from the service provider.

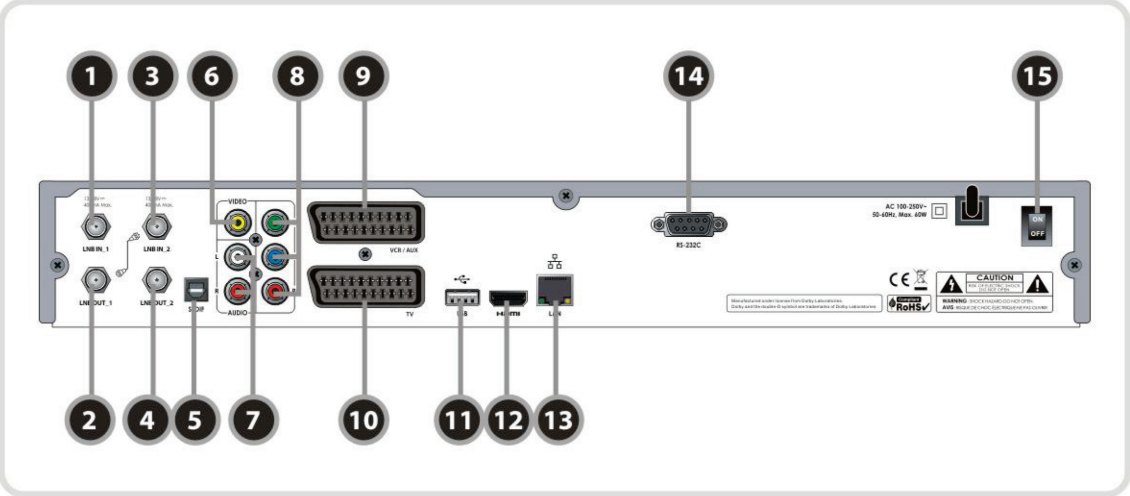
2. VFD(Vacuum Fluorescent Display)



1. ***Remote Indication LED*** : The LED lights up when a key on the Remote Controller is pressed.
2. ***Radio icon*** : The icon lights up when you change the radio service.
3. ***TV icon*** : The icon lights up when you change the TV service.
4. ***SAT*** : Satellite mode.
5. ***TER(Option)*** : Terrestrial mode.
6. ***FILE*** : Turned on when file list is displayed in the SATA HDD or USB Storage Device.
7. ***REC*** : Turned on during recording.
8. ***PLAY Mode*** : Turned on when you play the file on file list. (SATA HDD, USB Storage Device)
9. ***TIME SHIFT*** : Turned on during Time-shift.
10. ***Information*** : Display information including service name and other information.
11. ***TIMER*** : Turned on when timer is set.
12. ***HD*** : Turned on during HD service.
13. ***USB*** : Turned on during USB device working.
14. ***LOCK*** : Turned on during lock service.
15. ***Dolby*** : Turned on during Dolby service.
16. ***Tu1*** : Turned on when using Tuner1
17. ***Tu2*** : Turned on when using Tuner2
18. ***MP3*** : Turned on during MP3 playback.
19. ***Repetition(*)*** : Turned on during recording repeatedly.
20. ***Resolution*** : Turned on and indicating current Resolution setting.

NOTE : (*) This icon(Repetition) will be supported later, by new s/w version by upgrading. Please refer to your local dealer / distributor.

3. Rear Panel Configuration


1
3
6
8
9
14
15
LNB IN_1
LNB IN_2
VIDEO
VCR / AUX
RS-232C
AC 100-250V~
50-60Hz, Max. 60W
ON
OFF
LNB OUT_1
LNB OUT_2
SPDIF
L
R
AUDIO
TV
USB
HDMI
LAN
CAUTION
RoHS
2
4
5
7
10
11
12
13

1. ***LNB IN_1***
   Satellite broadcasting signal input socket for the first tuner. Connects a satellite antenna LNB cable.

2. ***LNB OUT_1***
   Satellite broadcasting signal output socket through the first tuner. Connects to a second tuner for loop-through.

3. ***LNB IN_2*** :
   Satellite broadcasting signal input socket for the second tuner. Connects a satellite antenna cable or from the first tuner LNB OUT_1 connector.

4. ***LNB OUT_2*** :
   Satellite broadcasting signal output socket through the second tuner. Connects to another STB for loop-through.

5. ***SPDIF*** : Connects to the audio system using a S/PDIF cable. (digital audio)

6. ***VIDEO*** : Connects to the TV or VCR using a RCA cable. (Composite video output / Yellow)

7. ***AUDIO L/R*** : Connects to the TV or VCR using a RCA cable. (Stereo audio output / White, Red)

8. ***Component*** : Connects to the TV or VCR using a component cable. (YPbPr)

9. ***VCR SCART*** : Connects to the VCR or DVD using a VCR SCART cable.

10. ***TV SCART*** : Connects to the TV input using a TV SCART cable.

11. ***USB*** : Use it when connecting to external USB storage device.

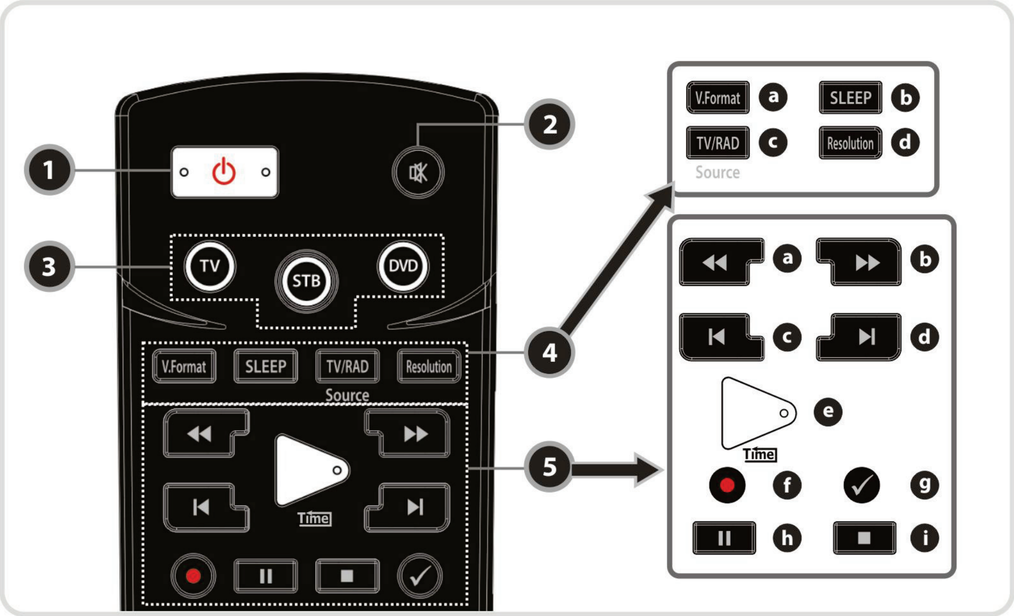
12. ***HDMI*** : Connects to the TV by using a HDMI cable for the best quality picture and audio.

13. ***Ethernet*** : Local area network port for direct computer connection.

14. ***RS-232C*** : Serial port for firmware update and data transfer.

15. ***A/C Switch*** : Power switch

4. Remote Control Unit



1. ***POWER*** : Turns the STB On/Off.

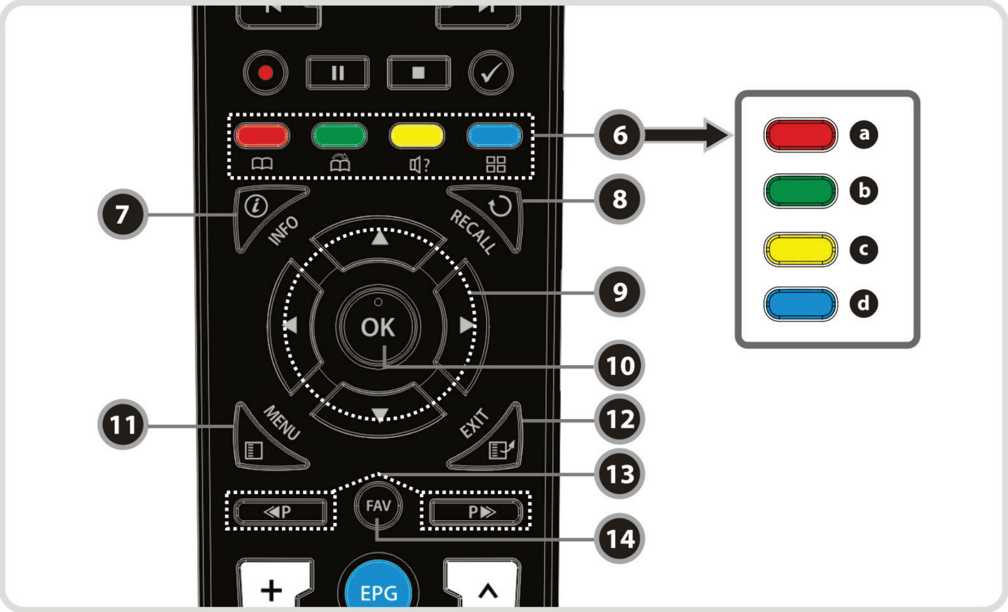
2. ***MUTE*** : Turns the sound On/Off.

3. ***Universal Buttons***
   a. ***Universal TV*** : Change the TV Remote Controller.
   b. ***STB*** : Change the STB Remote Controller.
   c. ***Universal DVD*** : Change the DVD Remote Controller.

4. ***MODE***
   a. ***V.Format*** : To select the TV types.(*PAL/NTSC*)
   b. ***Sleep*** : To adjust sleep timer.
   c. ***TV/RADIO*** : Switches between TV and Radio.
   d. ***Resolution*** : To select the resolution format. Each time you press the **Resolution** button, the resolution changes in the following sequence: ***576i > 576p > 720p > 1080i***

5. ***Playback Control Buttons***
   a. ***Rewind*** : Rewinds at high speed. Each time you press this button the rewind speed is increased.
   b. ***Fast Forward*** : Fasts forward at high speed. Each time you press this button the speed is increased.
   c. ***Previous File*** : To play the previous MP3 file in MP3 play mode. This button is also used to jump back to beginning of recording during a playback.
   d. ***Next File*** : To play the next file. This button is also used to jump to end of recording during a playback.
   e. ***Play / Time shift*** : Display the progress bar of playback when no progress bar is displayed. Start playback with normal speed. Return to normal speed from trick mode..
   f. ***Recording*** : To start Recording.
   g. ***Repetition (*)***: This key is used to play back a recording repeatedly.
   h. ***Pause*** : This key is used to pause the video. Press once more to resume the video.
   i. ***STOP*** : To stop time shifting, play back or recording.

NOTE : (*) This button(Repetition) will be supported later, by new s/w version by upgrading. Please refer to your local dealer / distributor.



6. ***Color Buttons***
   - **a.** ***RED*** : Used for special function in menu. **RED** key is used to sort lists in service list or go to previous day search in EPG or make/delete the current position as a bookmark.
   - **b.** ***GREEN*** : Used for special function in menu. **GREEN** key is used to set favorites setting in service list or go to the next bookmark position.
   - **c.** ***YELLOW*** : Used for special function in menu. **YELLOW** key is used to find service in service list or change the audio track.
   - **d.** ***BLUE*** : Used for special function in menu. **BLUE** key is used to set service list option in service list or display ***Multi-Picture.(*)***

7. ***Information*** : Shows the information box of the current program. If you press one more time, a detail information box will be shown.

8. ***Recall*** : Moves to previous service.

9. ***ARROW Buttons***
   - **a.** ***Up & Down Key*** : To change the value of a selected item with preprogrammed values in menu.
   - **b.** ***Left & Right Buttons*** : To move the cursor left and right in menu.

10. ***OK or Service List*** : Show the service list in non-menu mode and select an item or confirm in menu mode.

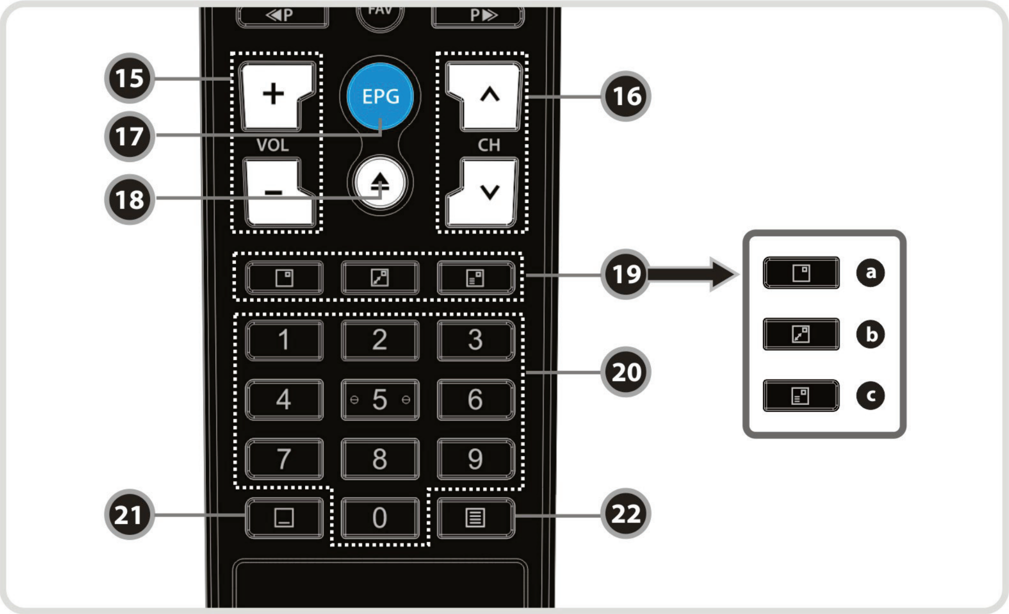
11. ***Menu*** : To enter the main menu or to move to the previous menu.

12. ***EXIT*** : Exit from the menu or pop-up window.

13. ***Page Up& Down*** : Move to the next or previous page if more than one page is available. This button also is change the location of sub picture in PIP.

14. ***Favorite*** : To display the satellites programmed into the receiver and the favorite groups.

NOTE : (*) This Feature(Multi-Picture) will be supported later, by new s/w version by upgrading. Please refer to your local dealer / distributor.



15. Volume Up & Down : To change the Volume.

16. Channel Up & Down: To change the TV or Radio service channel.

17. EPG(Electronic Program Guide) : Show the TV/Radio program guide.

18. Play List : To show the file list in the SATA HDD or USB Storage Device.

19. PIP Buttons

- **a.** ***PIP(Picture in Picture)*** : To open the PIP window.
- **b.** ***PIP Swap*** : Switching between main-picture and sub-picture
- **c.** ***PIP(Picture in Picture) Service List*** : To shown the sub-picture service list.

20. Numeric : Controls the numerical operation and service numbers directly.

21. Subtitle : To show multilingual subtitle.

22. Teletext : To show the digital teletext.

5. Multi-Brand IR Remote Controller Setting

NOTE : When there is no input during about 10 seconds from set mode, set mode is canceled.

1. *Direct Code Entry*

Step 1 : Turn on the **DEVICE** what you want to set up(TV / DVD / VCR)
Step 2 : Press **DEVICE** and **OK** button during about 2 seconds at the same time.
✓ ***DEVICE LED will blink twice.***
Step 3 : Input the 3 digit code numbers.
(Refer to ***'Code Table for Universal Remote Control Unit'*** *in the rear section of this manual*)
✓ ***DEVICE LED will blink twice and the DEVICE turns off.***
✓ ***If you enter a wrong DEVICE code, DEVICE will blink once***
Step 4 : If your DEVICE turns off, press **OK** button.
✓ ***DEVICE LED will blink twice.***

2. *Auto Code Search*

Step 1 : Turn on the DEVICE what you want to set up(TV, DVD)
Step 2 : Press **DEVICE** and **OK** buttons during about 2 seconds at the same time.
✓ ***DEVICE LED will blink twice.***
Step 3 : Press **UP** or **Down** button within 10 seconds to enter the Search mode.
Step 4 : Press **UP** or **Down** button until the **DEVICE** turns off, one and one.
Step 5 : If your DEVICE turns off, press **OK** button.
✓ ***DEVICE LED will blink twice.***

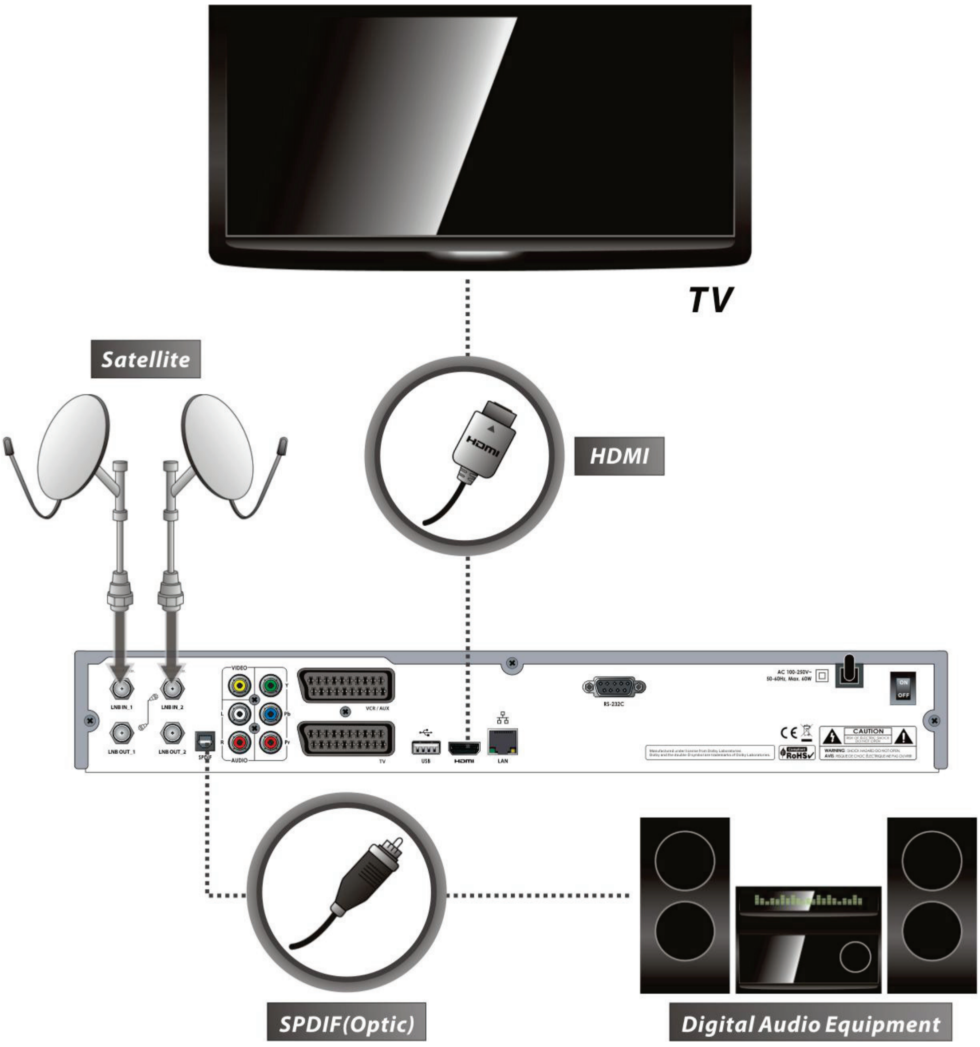
3. *Code No. Checking (Number Call)*

Step 1 : Press **DEVICE** and **OK** buttons during about 2 seconds at the same time.
✓ ***DEVICE LED will blink twice.***
Step 2 : Press **INFO** button within 3 seconds.
✓ ***LED will blink according to inputted mode number on the device.***
(Case of digit '0', it blinks 10 times.)

Connections Diagram

1. Receiver to TV with Digital A/V Output

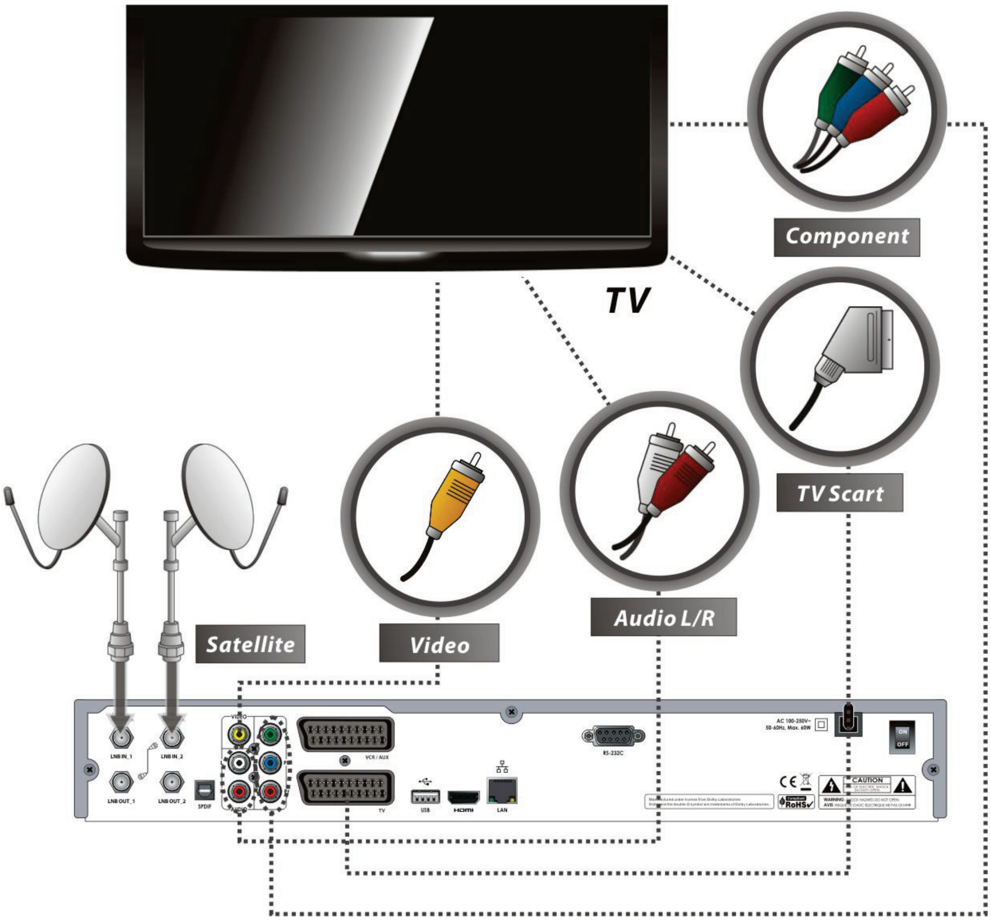
- Connect the satellite antenna cable to LNB IN.
- Connect the HDMI Cable to the HDMI Connector of the TV.
- Connect SPDIF to Digital audio input of the equipment(Digital Audio)


TV
Satellite
HDMI
LNB IN_1
LNB IN_2
LNB OUT_1
LNB OUT_2
VIDEO
AUDIO
VCR / AUX
TV
USB
LAN
RS-232C
SPDIF(Optic)
Digital Audio Equipment

***NOTE :** Depending on the A/V equipment you own, there are various ways you can connect the STB. To choose the best connection option, please refer to the manual of the equipment you would like to connect to. To get High Definition playback of High Definition content, we recommend that you connect your high definition display with a HDMI cable. HDMI supports standard, enhanced or high-definition video and multichannel audio in a single cable.*

2. Receiver to TV With Analog A/V Output

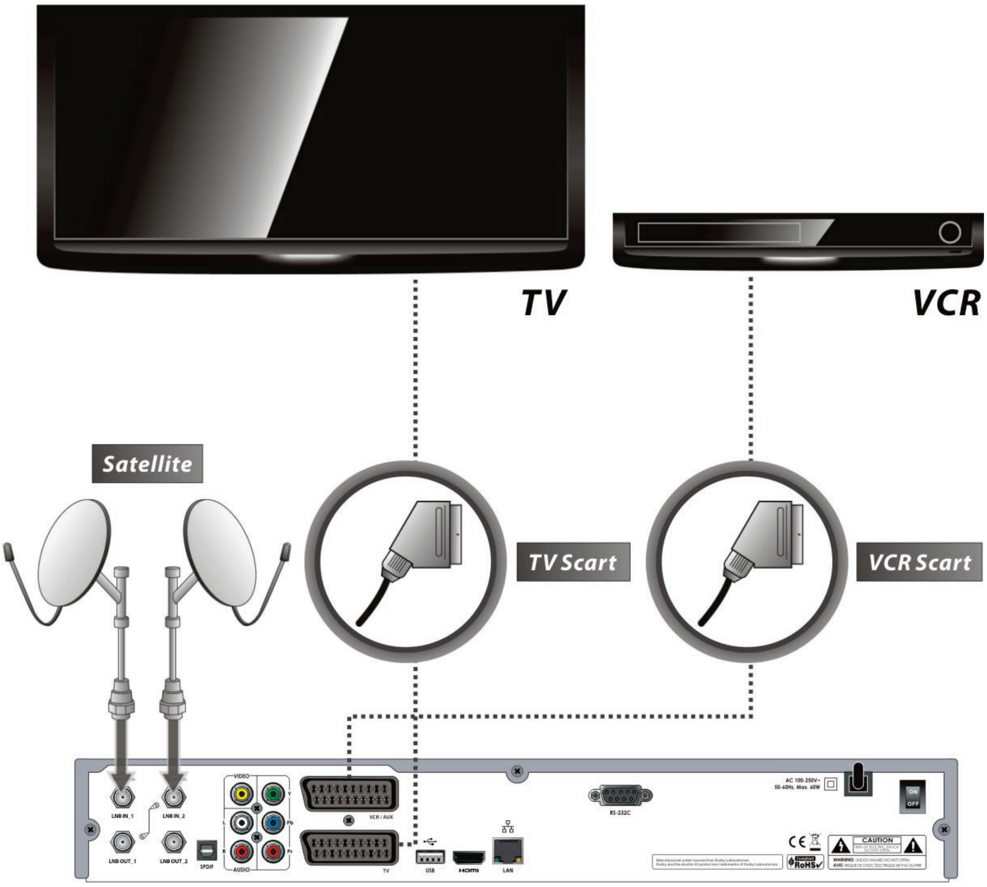
- Connect the satellite antenna cable to LNB IN.
- Connect the TV SCART to the SCART input of the TV.
- Connect the VCR SCART to the SCART input of the VCR.
- Connect the Component to the Component input of the TV.
- Connect the RCA to the RCA input of the TV.



NOTE : The component connection(YPbPr) is recommended for Digital TV.
The SCART cable connection is recommended for analogue TV or VCR
The composite connection(RCA cable) is recommended for analogue TV
You cannot view high definition video with the SCART and the composite video connector.

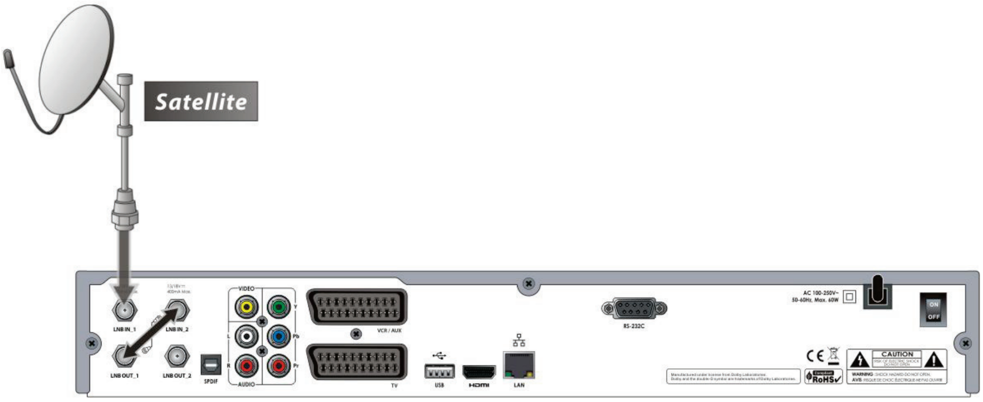
3. Receiver to TV and VCR

- Connect the satellite antenna cable to LNB IN.
- Connect the TV SCART to the SCART input of the TV.
- Connect the VCR SCART to the SCART input of the VCR.

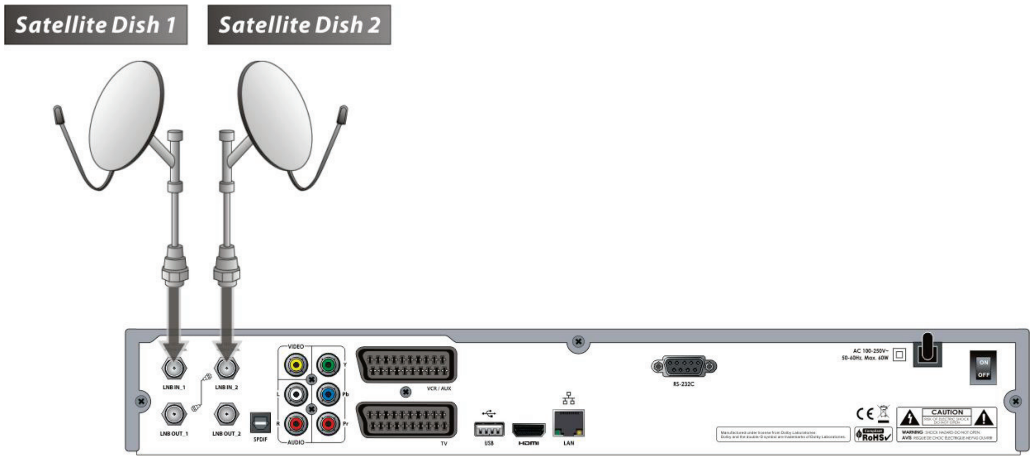

TV
VCR
Satellite
TV Scart
VCR Scart

4. Connecting to Dish

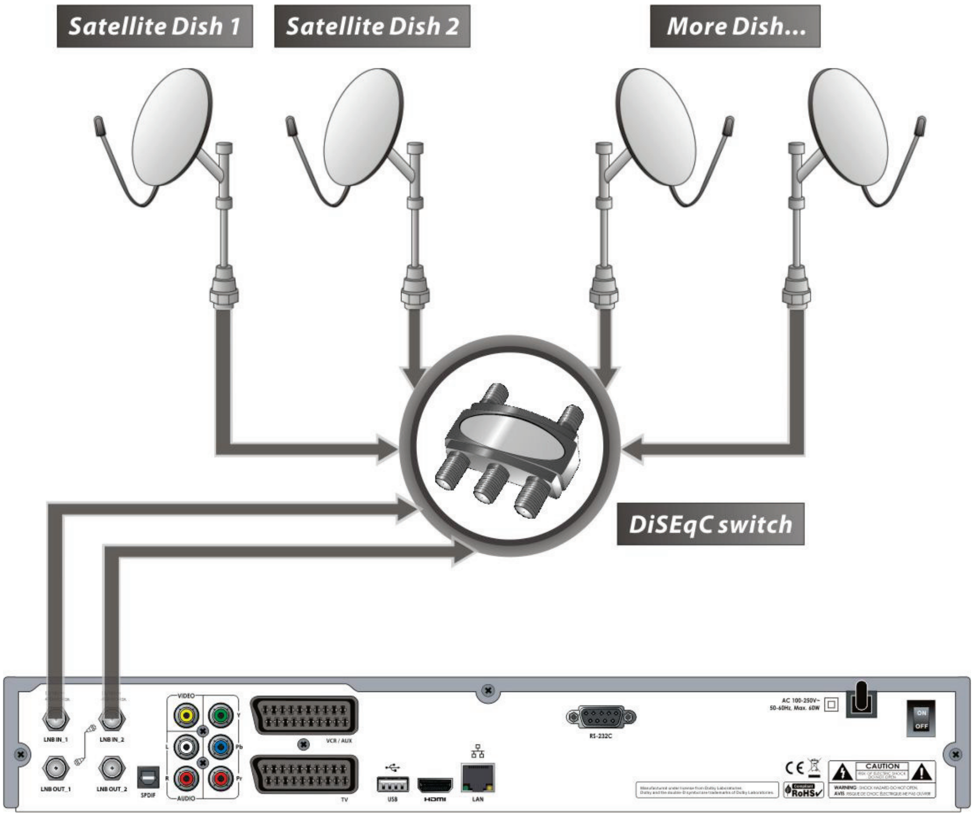
4.1 Connecting one dish to both tuners by Loop through



4.2 Connecting each Dish to each Tuner


Satellite Dish 1
Satellite Dish 2
LNB IN_1
LNB IN_2
LNB OUT_1
LNB OUT_2
SPDIF
VIDEO
AUDIO
VCR / AUX
TV
USB
HDMI
LAN
RS-232C
AC 100-250V~
50-60Hz, Max. 60W
ON
OFF
CAUTION

4.3 Connecting Antenna cable to each Tuner using DiSEqC SW (Recommend)


Satellite Dish 1
Satellite Dish 2
More Dish...
DiSEqC switch
LNB IN_1
LNB IN_2
LNB OUT_1
LNB OUT_2
SPDIF
VIDEO
AUDIO
VCR / AUX
TV
USB
HDMI
LAN
RS-232C
AC 100-250V~
50-60Hz, Max. 60W
ON
OFF
CAUTION

Guide of Functions

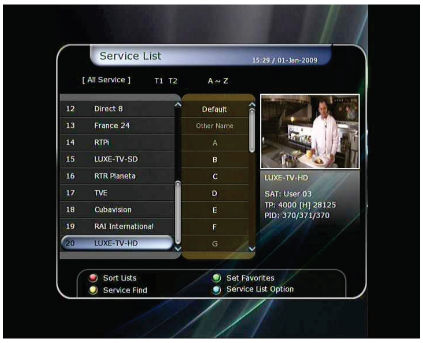
1. Selecting a Service

To select the desired service (channel), please refer to the instructions below.

1.1 Using CH UP/DOWN buttons

You can navigate between services by pressing **CH UP/DOWN** buttons. Whenever you press the **CH UP(DOWN)** button, current service will be changed to next/previous service. Please press **CH UP** or **CH DOWN** button until you find the service you want to watch.

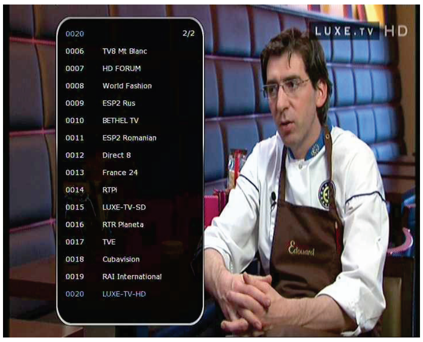
1.2 Using Service List


Service List
15:29 / 01-Jan-2009
[All Service]
T1 T2
A ~ Z
12 Direct 8
13 France 24
14 RTPi
15 LUXE-TV-SD
16 RTR Planeta
17 TVE
18 Cubavision
19 RAI International
20 LUXE-TV-HD
Default
Other Name
A
B
C
D
E
F
G
LUXE-TV-HD
SAT: User 03
TP: 4000 [H] 28125
PID: 370/371/370
Sort Lists
Service Find
Set Favorites
Service List Option

To select the desired service in the service list, you should firstly display the service list by pressing the **OK** button.
Use the **ARROW** buttons to select a desired service and press the **OK** button.
You can see that the service is changed in the small screen on the top-right.
To watch that service, press the **OK** button once more.
To watch the previous service, press the **EXIT** button.
In the Service List window, you can also select additional functions with the **COLOUR** buttons.
Press the **RED** button, and you can sort the services by the Alphabet, Transponder(TP), Group, Tuner and CAS (Conditional Access System).
Press the **GREEN** button, and you can add the services to one of 10 Favorite Lists.
Press the **YELLOW** button, and you can search & find the service via a virtual keyboard.
Press the **BLUE** button, and you can adjust service list option.

NOTE : If you connect the tuner with a loop-through, you cannot use the sort list option.

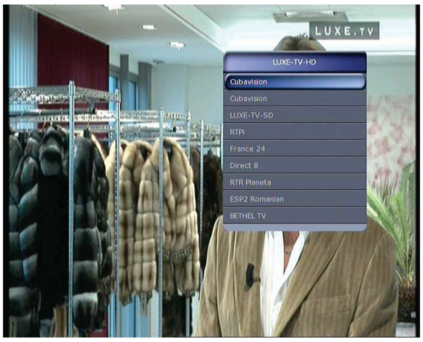
1.3 Using Instant Service List


0020
2/2
0006 TV8 Mt Blanc
0007 HD FORUM
0008 World Fashion
0009 ESP2 Rus
0010 BETHEL TV
0011 ESP2 Romanian
0012 Direct 8
0013 France 24
0014 RTPi
0015 LUXE-TV-SD
0016 RTR Planeta
0017 TVE
0018 Cubavision
0019 RAI International
0020 LUXE-TV-HD
LUXE.TV HD
Edouard

- If you press **NUMERIC** buttons or **UP/DOWN ARROW** button, instant service list will be displayed.
- Select the desired service by using the **ARROW** button, and press **OK** button to watch.
- You can also enter the service number directly by using the **NUMERIC** button.

1.4 Using Recent Service List

- To return to the previous service that you were watching, press **RECALL** button.
- To display recent service list, press the **RECALL** button and hold for a few seconds.
- To chose the service from the recent service list, use the **ARROW** button to select, then press the **OK** button.
- Press **EXIT** button to exit from the recent service list.

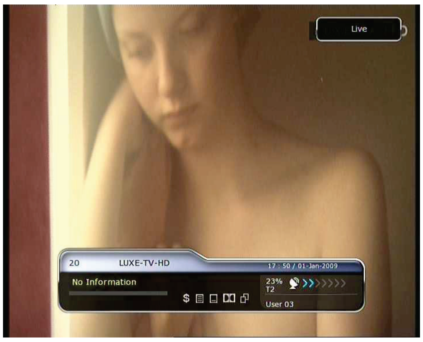

LUXE.TV
LUXE-TV-HD
Cubavision
Cubavision
LUXE-TV-SD
RTPi
France 24
Direct 8
RTR Planeta
ESP2 Romanian
BETHEL TV

2. Information Window

If you want to view the information of the current service that you are watching, press **INFO** button. Then the Information window will be displayed.

This Information window is automatically displayed when changing between the services. This window contains useful information such as service number, service name, scrambled types of service, teletext, subtitle, Audio indication for Dolby Digital, Time duration of the service and so on.

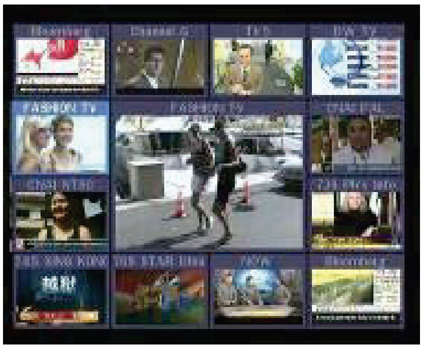
By pressing **INFO** button once again, you can get more detailed information about the service.


Live
20
LUXE-TV-HD
17 : 50 / 01-Jan-2009
No Information
23%
T2
User 03

3. Multi-Picture Display. (*)

Press the **BLUE** button to display multiple pictures and use the **RED** button to select the display options for 9 or 12 multiple pictures.

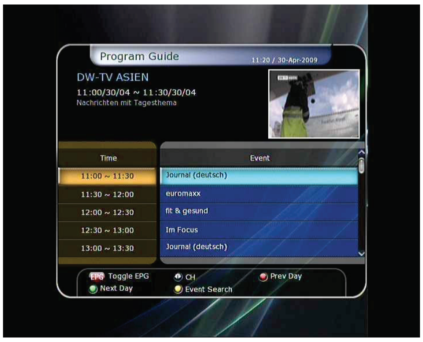
NOTE : (*) This feature will be supported later, by new s/w version by upgrading. Please refer to your local dealer / distributor.



4. Electronic Program Guide (EPG)

Electronic Program Guide (EPG) allows you to see program schedule and program information from the service which includes this data as part of their transmission. Multiple services will be shown with a time line of programming events. The EPG supplies additional information of channel service, such as program listings, start/end times and detailed information about the program listings for all available services.

The availability and details of information of these program details can be varied, depending on the particular broadcasters, individual services.


Program Guide
11:20 / 30-Apr-2009

DW-TV ASIEN
11:00/30/04 ~ 11:30/30/04
Nachrichten mit Tagesthema

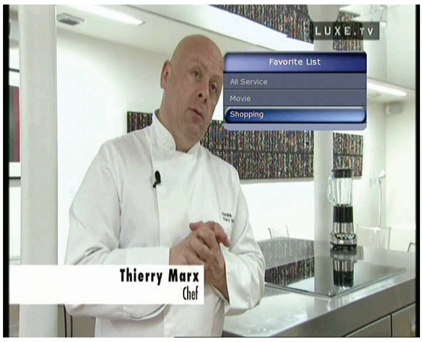
Time	Event
11:00 ~ 11:30	Journal (deutsch)
11:30 ~ 12:00	euromaxx
12:00 ~ 12:30	fit & gesund
12:30 ~ 13:00	Im Focus
13:00 ~ 13:30	Journal (deutsch)

EPG Toggle EPG
CH
Prev Day
Next Day
Event Search

- Press the **EPG** button, then the EPG menu will be displayed.
- Use the **ARROW** buttons to move to other services or to see previous/next guide.
- Press the **EPG** button once to view full EPG with multi service list, and press it twice to view the additional EPG information of a specific channel service. Keep pressing the EPG button to toggle between the full and detailed menus of EPG.
- Press the **GREEN** button to view next day EPG and the **RED** button to view EPG for a previous day.
- Select the program by using the **ARROW** buttons then set the event timer by pressing **OK**.
- You can schedule a recording with the EPG menu as follows.
  - Press **RECORD** button to schedule the event. This schedule can be checked in the menu of Timer Settings, in the System tool menu.
  - To cancel the schedule of the recording, press the **OK** button for the appointed event.
  - To edit the schedule of the recording, press the **RECORD** button for the appointed event.

5. Favorite Group

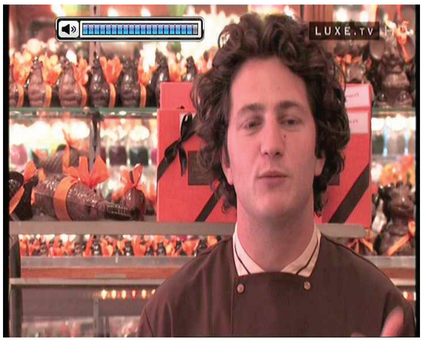
Select the **FAV** (Favorite) to view all favorite ten groups such as sports, movie, drama, satellite group and so on. Scroll through the various favorite group using the **ARROW** buttons, and select the desired favorite group by pressing **OK**.



6. Volume Control

- To adjust the audio volume, press the **VOL UP/ DOWN** buttons.
- Audio volume control bar will be displayed at the top of the screen and disappear after 4 seconds.
- When necessary, press the **MUTE** button to turn on/off the audio sound.

NOTE : The mute function remains set while you change services.



7. Pause

The **PAUSE** button is used to freeze the video. Press **PAUSE** button once more to resume the video.

8. Subtitle

You can select the language for a Subtitle, if the program provides subtitle information.

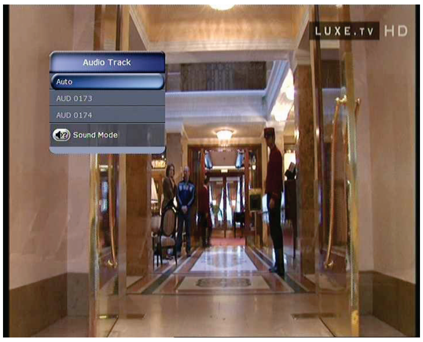
- Press the **SUBTITLE** button on your remote control unit.
- Select the desired subtitle language then press **OK** button.

- The subtitle will be displayed in the selected language at the bottom of the screen.
- To turn OFF the subtitle from the screen, Select ***'Off'*** from the subtitle language list.

NOTE : When program does not provide subtitle information, SUBTITLE button is not active.

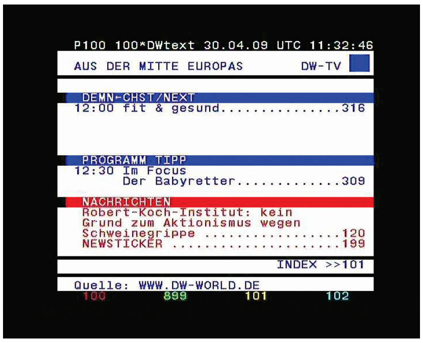
9. Audio Track

User can select the audio language list by pressing the **AUDIO(YELLOW)** button. Use the **ARROW** buttons to choose the preferred audio track from the list, then press **OK** to change. Multiple use of the **YELLOW** button toggles between additional menus

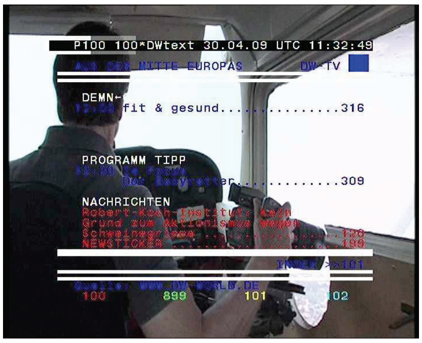


10. Teletext

When the ***TELETEXT icon*** on INFO Banner is appeared (Activated), Press the **TELETEXT** button to view the teletext information.

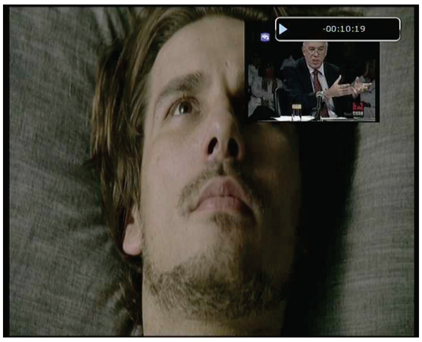


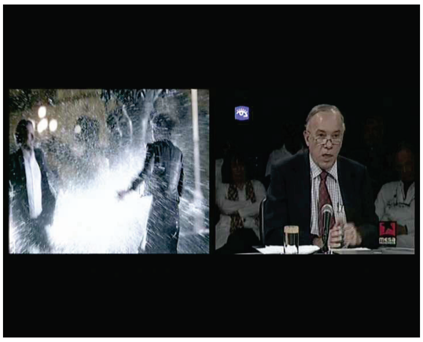
```
P100 100*DWtext 30.04.09 UTC 11:32:46
AUS DER MITTE EUROPAS            DW-TV

  DEMN←CHST/NEXT
12:00 fit & gesund...............316

  PROGRAMM TIPP
12:30 Im Focus
      Der Babyretter.............309
  NACHRICHTEN
  Robert-Koch-Institut: kein
  Grund zum Aktionismus wegen
  Schweinegrippe ................120
  NEWSTICKER ....................199
                        INDEX >>101
Quelle: WWW.DW-WORLD.DE
  100       899       101       102
```



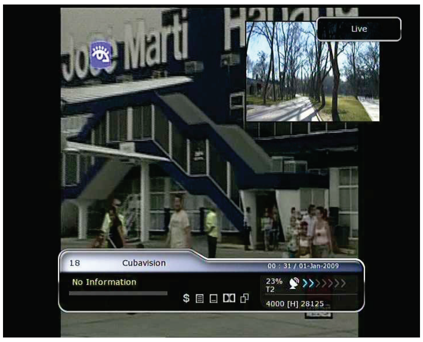
11. PIP (Picture in Picture)

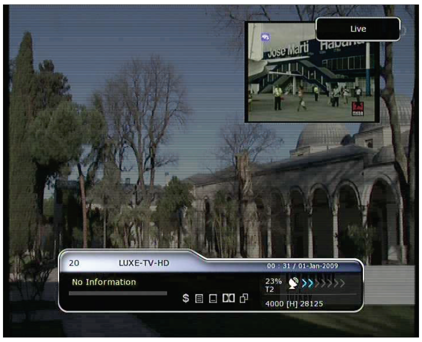
- When you press the **PIP** button, a sub picture screen will appear on the main screen view.
  If you press the **PIP** button one more time, the primary picture and the sub picture will appear together side-by-side with the same size. The picture of the left side is the primary and the picture on the right side is sub. If you press the **PIP** button one more time, the sub picture will disappear.



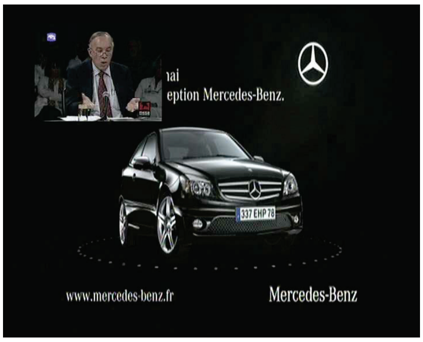


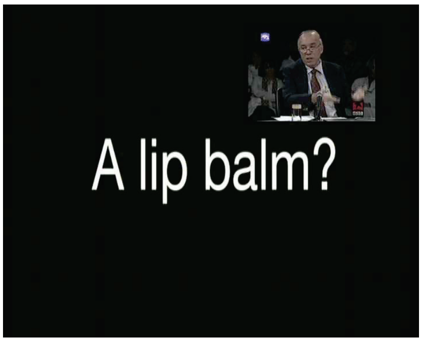
- In the PIP mode, you can change primary and sub with the **PIP SWAP** button.

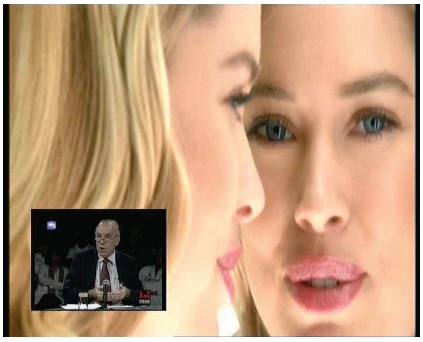

Live
18 Cubavision
00 : 31 / 01-Jan-2009
No Information
23% T2
4000 [H] 28125

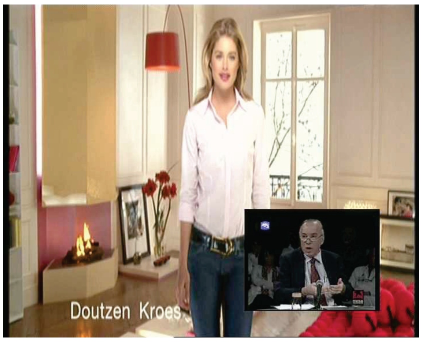

Live
20 LUXE-TV-HD
00 : 31 / 01-Jan-2009
No Information
23% T2
4000 [H] 28125

- If you press the **PAGE UP/DOWN** button, the location of the sub picture is changed.


eption Mercedes-Benz.
www.mercedes-benz.fr
Mercedes-Benz

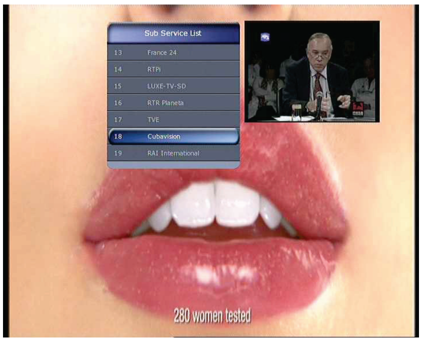





Doutzen Kroes

- If you press the **PIP SERVICE LIST** button, you can see the list of services of sub picture.
  You can change the service of the sub picture from the service list shown.

  NOTE : Changing services of sub the picture could be limited by the condition of the tuner connection or a recording event ongoing.


Sub Service List
13 France 24
14 RTPi
15 LUXE-TV-SD
16 RTR Planeta
17 TVE
18 Cubavision
19 RAI International
280 women tested

PVR (Personal Video Recorder) Function

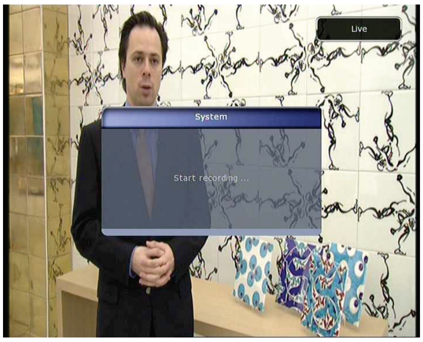
1. Recording

You can select a recording storage device with the following sequence :
Menu** > **Configuration** > **Recording Option** > **Record Device.
Default is set to '***Hard Disk'***.

1.1 Recording methods

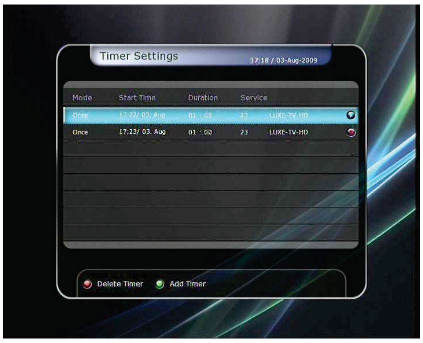
There are 3 type recording methods.
(Instant Recording / Time Scheduled Recording / Event Scheduled Recording).

- **Instant Recording :**
  At anytime, you may press the **RECORD** button to start your recording instantly.



Start recording ...

- **Time Scheduled Recording :**
  - In Timer Settings menu, you may set the time & program to record your desired service program.
    (Main Menu > System Tools > Timer Settings)

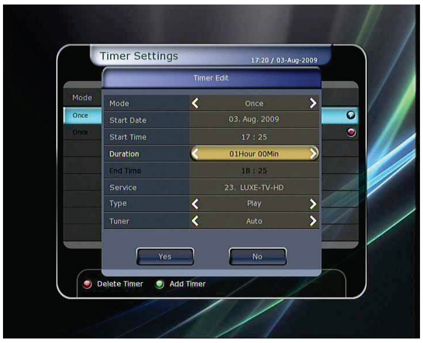


17:18 / 03-Aug-2009

Mode	Start Time	Duration	Service	
Once	17:22/ 03. Aug	01 : 00	23	LUXE-TV-HD
Once	17:23/ 03. Aug	01 : 00	23	LUXE-TV-HD

  - Press the **GREEN** button to activate the new timer edit screen.

  - In the Timer Edit screen, you may choose start date/time, duration, service, mode, type (Recording/Play), Tuner (Auto/1/2) then simply press the Yes button to schedule your recording event. Please note that the minimum offset time of 3 minutes is required from the Start time & current time for appropriate recording process to take place.



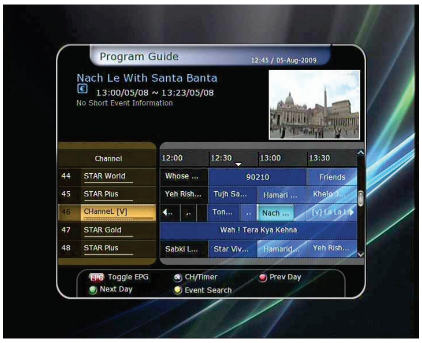
17:20 / 03-Aug-2009

Mode	Once
Start Date	03. Aug. 2009
Start Time	17 : 25
Duration	01Hour 00Min
End Time	18 : 25
Service	23. LUXE-TV-HD
Type	Play
Tuner	Auto

- **Event Scheduled Recording via EPG :**

  In the EPG menu screen, you can choose the event you wish to schedule or record.

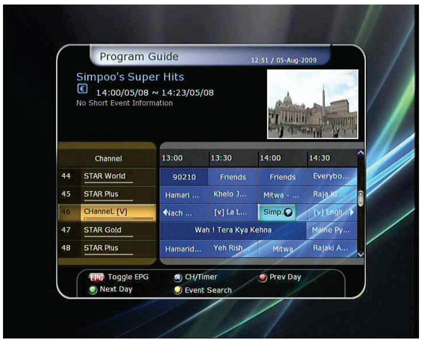
  - While watching the LIVE TV screen, press the **EPG** button to access the EPG menu screen.


Program Guide
12:45 / 05-Aug-2009
Toggle EPG
CH/Timer
Prev Day
Next Day
Event Search

Nach Le With Santa Banta
13:00/05/08 ~ 13:23/05/08
No Short Event Information

Channel		12:00	12:30	13:00	13:30
44	STAR World	Whose ...	90210		Friends
45	STAR Plus	Yeh Rish...	Tujh Sa...	Hamari ...	Khelo J...
46	CHanneL [V]	.. ..	Ton... ..	Nach ...	[V] La La La
47	STAR Gold	Wah ! Tera Kya Kehna			
48	STAR Plus	Sabki L...	Star Viv...	Hamarid...	Yeh Rish...

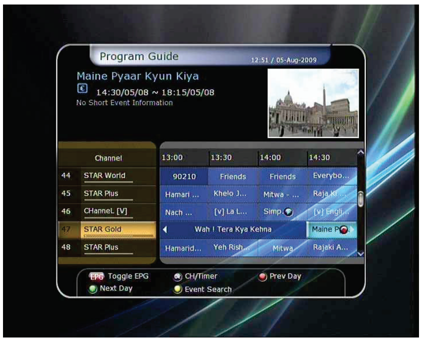
  - Go to the event which you wish to view at the time indicated on the EPG schedule, then press **OK**. The event will be scheduled with the ***BLUE play icon***. This BLUE play icon means that you want to just watch the event at the scheduled time.


Program Guide
12:51 / 05-Aug-2009
Toggle EPG
CH/Timer
Prev Day
Next Day
Event Search

Simpoo's Super Hits
14:00/05/08 ~ 14:23/05/08
No Short Event Information

Channel		13:00	13:30	14:00	14:30
44	STAR World	90210	Friends	Friends	Everybo...
45	STAR Plus	Hamari ...	Khelo J...	Mitwa - ...	Raja Ki ...
46	CHanneL [V]	Nach ...	[V] La L...	Simp.	[V] Engli...
47	STAR Gold	Wah ! Tera Kya Kehna			Maine Py...
48	STAR Plus	Hamarid...	Yeh Rish...	Mitwa	Rajaki A...

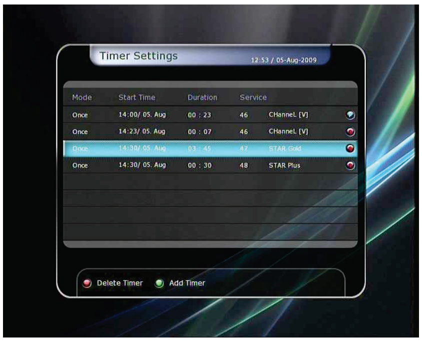
  - Press the **OK** button one more time, then the event will be scheduled with the ***RED dot icon***. This RED dot icon means that you want to record the event at the scheduled time.


Program Guide
12:51 / 05-Aug-2009
Toggle EPG
CH/Timer
Prev Day
Next Day
Event Search

Maine Pyaar Kyun Kiya
14:30/05/08 ~ 18:15/05/08
No Short Event Information

Channel		13:00	13:30	14:00	14:30
44	STAR World	90210	Friends	Friends	Everybo...
45	STAR Plus	Hamari ...	Khelo J...	Mitwa - ...	Raja Ki ...
46	CHanneL [V]	Nach ...	[V] La L...	Simp.	[V] Engli...
47	STAR Gold	Wah ! Tera Kya Kehna			Maine P
48	STAR Plus	Hamarid...	Yeh Rish...	Mitwa	Rajaki A...

  - When you set an event for scheduled recording via the EPG menu. It automatically sets a Timer Event in the ***Main Menu > System Tools > Timer Settings.***

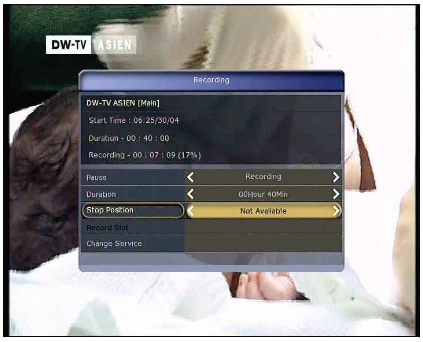

Timer Settings
12:53 / 05-Aug-2009
Delete Timer
Add Timer

Mode	Start Time	Duration	Service	
Once	14:00/ 05. Aug	00 : 23	46	CHanneL [V]
Once	14:23/ 05. Aug	00 : 07	46	CHanneL [V]
Once	14:30/ 05. Aug	03 : 45	47	STAR Gold
Once	14:30/ 05. Aug	00 : 30	48	STAR Plus

1.2 Recording Edit

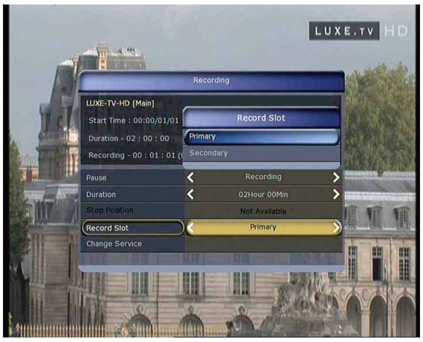
Press the **REC** button while recording to see the recording message window.

- **Pause :** Select **Pause Recording** then press **OK** to pause the current recording process.
- **Duration :** Set recording duration. Press **LEFT/RIGHT ARROW** button to change recording duration.
- **Stop Position :**
  Set the finishing time of recording.
  - **End of current event :** finish recording at the end of current event
  - **End of next event :** finish recording at the end of next event.
  - **Not Available :** EPG is not available.



DW-TV ASIEN [Main]
Start Time : 06:25/30/04
Duration - 00 : 40 : 00
Recording - 00 : 07 : 09 (17%)
Pause: Recording
Duration: 00Hour 40Min
Stop Position: Not Available

- **Record Slot :** When you are recording 2 services, you can set Primary / Secondary with **Left/Right ARROW** button. Press **OK** button to go to the recording service.



LUXE-TV-HD [Main]
Start Time : 00:00/01/01
Duration - 02 : 00 : 00
Recording - 00 : 01 : 01
Pause: Recording
Duration: 02Hour 00Min
Stop Position: Not Available
Record Slot: Primary

1.3 Long Time recording

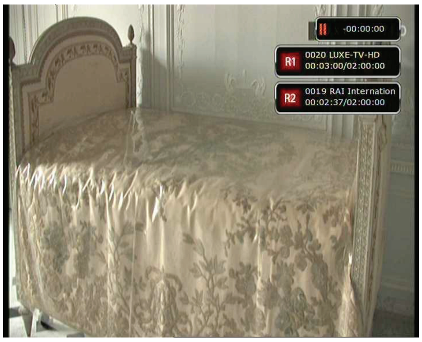
During lengthy time recording processes of 4GB(Giga Byte) or more, additional files may be created per every 4GB. (For example; aaa.ts, aaa.ts1, aaa.ts2… and so on).

You must remember not to erase any of the duplicated file. These files are only able to be viewed with your PC not with the receiver (STB).

1.4 Pause during recording

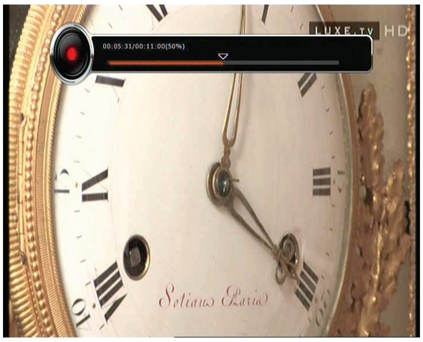
- When the **PAUSE** button is pressed during recording, only the live video is paused, but recording is continued at the selected recording device.
  (***Menu*** > ***Configuration*** > ***Recording Option*** > ***Record Device***)

- Press **PAUSE** button once again and event will resume from the pause time.

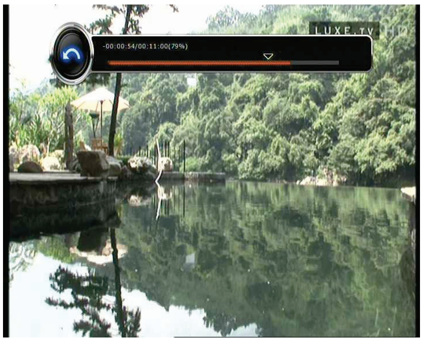


-00:00:00
R1 0020 LUXE-TV-HD 00:03:00/02:00:00
R2 0019 RAI Internation 00:02:37/02:00:00

- During recording, press the **PLAY/TIMESHIFT** button to show the Play bar screen.

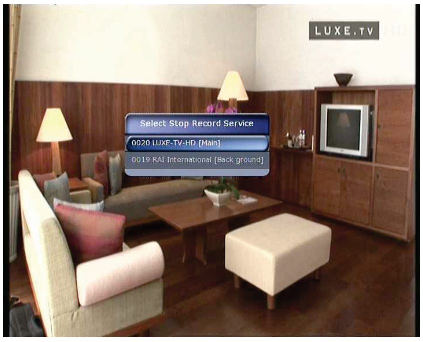

00:05:31/00:11:00(50%)
LUXE.TV HD

- While the Play bar is shown on your screen, you may use the **LEFT/RIGHT ARROW** button to move (forward & backward) freely within recorded time.


-00:00:54/00:11:00(79%)
LUXE.TV HD

- If you press the **STOP** button, it will go to LIVE and you may press **PREV FILE** button to view the recorded file from the beginning.

- When recording 2 services at the same time, Press the **STOP** button to see a message window of current recording status / information.
  If you select one of the 2 recordings and press the **OK** button, that recording service will be stopped.
  If you press the **STOP** button during recording 1 service, the recording will be stopped.

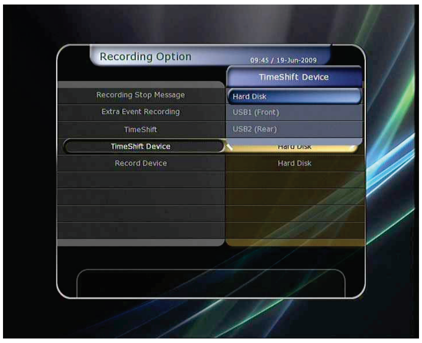

LUXE.TV
Select Stop Record Service
0020 LUXE-TV-HD [Main]
0019 RAI International [Back ground]

NOTE : Dual Recording

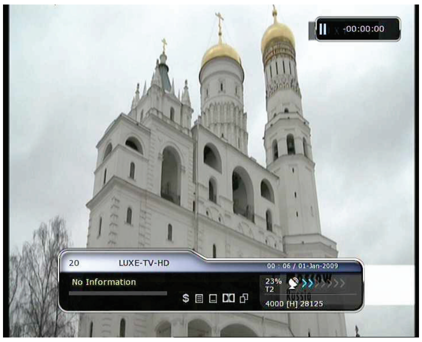
STB can record up to two different services simultaneously. Time shifting is also a recording, so Time shifting will be possible on one of the two recordings during dual recording.

2. Time Shifting

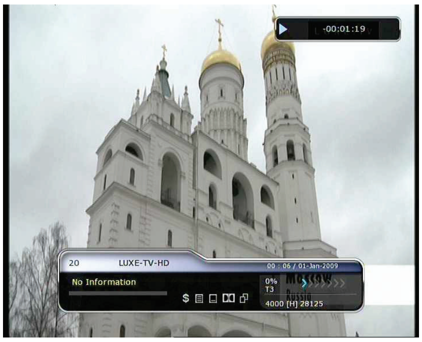
You can select a storage device for a temporary file of the Time shifting with the following sequence:
Menu* > *Configuration* > *Recording Option* > *TimeShift Device.
Default storage device is set to '***Hard Disk(SATA)***'


Recording Option
09:45 / 19-Jun-2009
TimeShift Device
Recording Stop Message
Extra Event Recording
TimeShift
TimeShift Device
Record Device
Hard Disk
USB1 (Front)
USB2 (Rear)
Hard Disk
Hard Disk

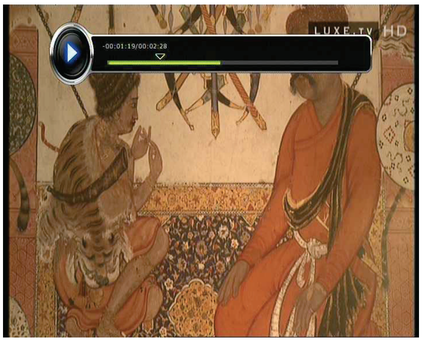
- If pressing the **PAUSE** button during Time shift, the live video is paused but the temporary recording for time shift is continued at the selected storage device.


-00:00:00
20
LUXE-TV-HD
00 : 06 / 01-Jan-2009
No Information
23%
T2
4000 [H] 28125

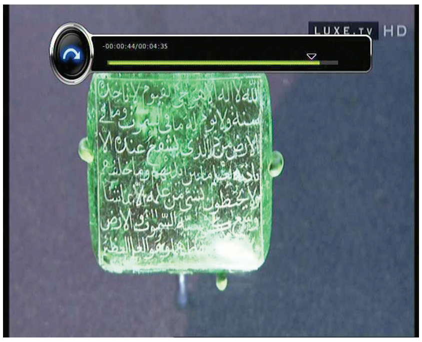
- Press the **PAUSE** button once again, then the event will resume from the paused time.


-00:01:19
20
LUXE-TV-HD
00 : 06 / 01-Jan-2009
No Information
0%
T3
4000 [H] 28125

- While watching live TV, press the **PLAY/TIMESHIFT** button to show the play bar on your screen.


-00:01:19/00:02:28
LUXE.TV HD

- When the play bar is displayed on your screen, you may use the **LEFT/RIGHT ARROW** buttons to move freely through the recorded times bar.


-00:00:44/00:04:35
LUXE.TV HD

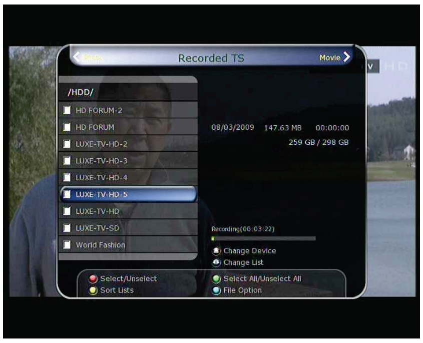
- If you press the **STOP** button while time-shifting, the screen will be turned to a live TV channel. You can also use **PREV FILE** button to move to a start location of the Time-shifted file.

3. Playback (Play List)

You can playback many files with the Playlist which you access by the **PLAYLIST** button.
In the Playlist, you can check and playback recorded files, multimedia movie files, MP3 music files, and image files. With the **LEFT/RIGHT ARROW** button, go to the Recorded Files, Imported Files, Music and Photo category and check & for playback files in each category. Press the **RIGHT ARROW** button once to go to Imported Files, press the **RIGHT ARROW** button one more time to go to the Music menu and press the **RIGHT ARROW** button one more time to go to the Photo menu.

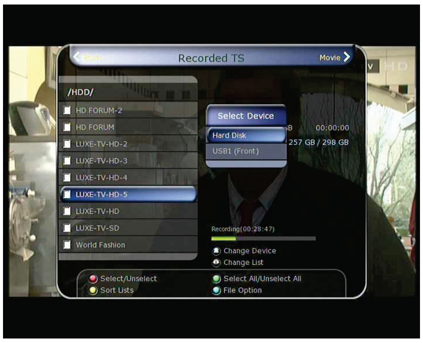
3.1 Recorded Files

- To enter Recorded Files menu, press the **PLAY LIST** button.
- Locate the recorded file(s) you wish to play with the **UP/DOWN** button and press the **OK** button to playback the recorded file(s).
- To choose a particular selection of files, select a desired file and press the **RED** button. Press the **OK** button to begin the selected files.

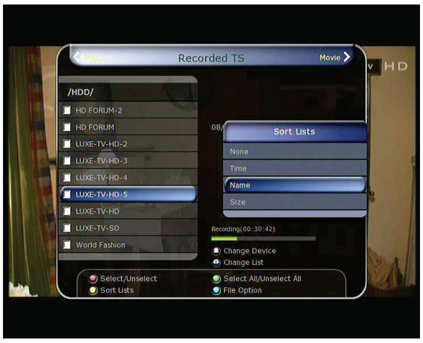

Recorded TS
Movie
/HDD/
HD FORUM-2
HD FORUM
LUXE-TV-HD-2
LUXE-TV-HD-3
LUXE-TV-HD-4
LUXE-TV-HD-5
LUXE-TV-HD
LUXE-TV-SD
World Fashion
08/03/2009 147.63 MB 00:00:00
259 GB / 298 GB
Recording(00:03:22)
Change Device
Change List
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

- **Select Device :** Press **PLAYLIST** button one more time in the Playlist mode to see "Select Device" window, and select the device which has the file you want to play.

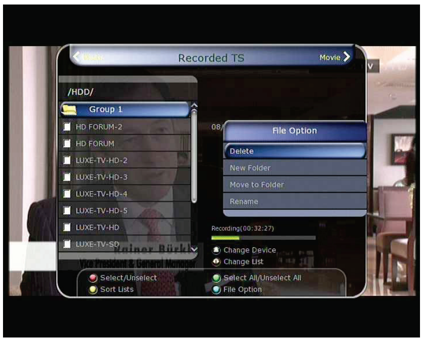
NOTE : "Select Device" window shows devices which are currently connected to the STB.


Recorded TS
Movie
/HDD/
HD FORUM-2
HD FORUM
LUXE-TV-HD-2
LUXE-TV-HD-3
LUXE-TV-HD-4
LUXE-TV-HD-5
LUXE-TV-HD
LUXE-TV-SD
World Fashion
Select Device
Hard Disk
USB1 (Front)
00:00:00
257 GB / 298 GB
Recording(00:28:47)
Change Device
Change List
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

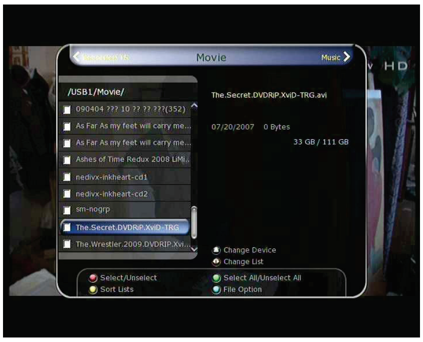
- **Sorting :** If you press the **YELLOW** button, you can sort the files by Time / Name / Size.


Recorded TS
Movie
/HDD/
HD FORUM-2
HD FORUM
LUXE-TV-HD-2
LUXE-TV-HD-3
LUXE-TV-HD-4
LUXE-TV-HD-5
LUXE-TV-HD
LUXE-TV-SD
World Fashion
Sort Lists
None
Time
Name
Size
Recording(00:30:42)
Change Device
Change List
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

- **File Option :** If you press the **BLUE** button, you can delete or move files, make a folder, rename in File Option. You can select multiple files together and delete or move all of them at once.

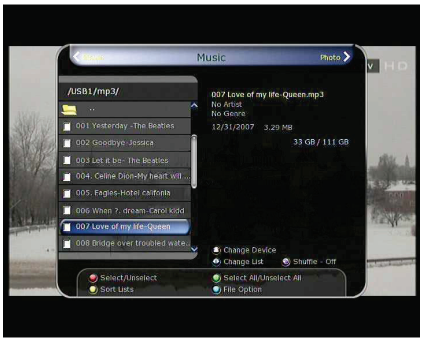

Recorded TS
Movie
/HDD/
Group 1
HD FORUM-2
HD FORUM
LUXE-TV-HD-2
LUXE-TV-HD-3
LUXE-TV-HD-4
LUXE-TV-HD-5
LUXE-TV-HD
LUXE-TV-SD
File Option
Delete
New Folder
Move to Folder
Rename
Recording(00:32:27)
Change Device
Change List
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

3.2 Imported Files


Movie
Music
/USB1/Movie/
090404 ??? 10 ?? ?? ???(352)
As Far As my feet will carry me...
As Far As my feet will carry me...
Ashes of Time Redux 2008 LiMi...
nedivx-inkheart-cd1
nedivx-inkheart-cd2
sm-nogrp
The.Secret.DVDRiP.XviD-TRG
The.Wrestler.2009.DVDRIP.Xvi...
The.Secret.DVDRiP.XviD-TRG.avi
07/20/2007 0 Bytes
33 GB / 111 GB
Change Device
Change List
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

- If you press **RIGHT ARROW** button in Recorded Files, you can go to Imported File menu.
- Locate the file(s) you wish to play with the **UP/DOWN** button and press the **OK** button to enjoy the movie.
- To choose a particular selection of files, select a desired file and press the **RED** button. Press the **OK** button to begin the selected files.
- You can use the same 'Select Device', 'Sorting' and 'File Option' features as in the Recorded Files.

3.3 Music


Music
Photo
/USB1/mp3/
..
001 Yesterday -The Beatles
002 Goodbye-Jessica
003 Let it be- The Beatles
004. Celine Dion-My heart will ...
005. Eagles-Hotel califonia
006 When ?. dream-Carol kidd
007 Love of my life-Queen
008 Bridge over troubled wate...
007 Love of my life-Queen.mp3
No Artist
No Genre
12/31/2007 3.29 MB
33 GB / 111 GB
Change Device
Change List
Shuffle - Off
Select/Unselect
Sort Lists
Select All/Unselect All
File Option

- If you press the **RIGHT ARROW** button in Imported Files, you can go to Music menu.
- If you press the **RECALL** button, you can enjoy music with Shuffle playback and repeat.
- You can use the same 'Select Device', 'Sorting' and 'File Option' features as in the Recorded Files.

3.4 Photo

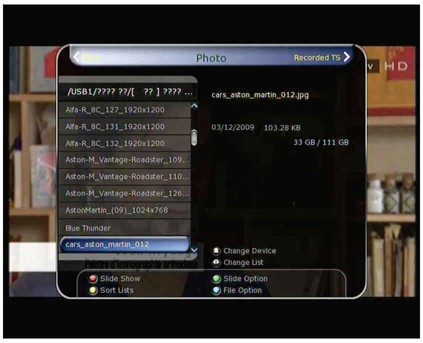
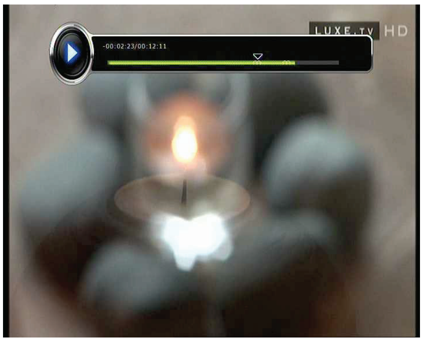


Photo
Recorded TS
/USB1/???? ??/[??] ???? ...
Alfa-R_8C_127_1920x1200
Alfa-R_8C_131_1920x1200
Alfa-R_8C_132_1920x1200
Aston-M_Vantage-Roadster_109...
Aston-M_Vantage-Roadster_110...
Aston-M_Vantage-Roadster_126...
AstonMartin_(09)_1024x768
Blue Thunder
cars_aston_martin_012
cars_aston_martin_012.jpg
03/12/2009 103.28 KB
33 GB / 111 GB
Change Device
Change List
Slide Show
Sort Lists
Slide Option
File Option

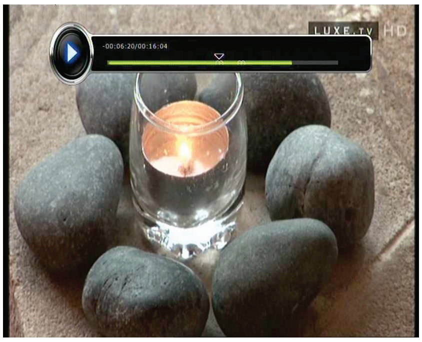
- If you press the **RIGHT ARROW** button in Music, you can go to the Image Photo menu.
- If you press the **RED** button or **OK** button, you can start the slide show of image files. Press the **EXIT** button to stop slide show.
- If you press the **GREEN** button, you can adjust the Slide Time, Repetition, Title, Down-scale.
- You can use the same 'Select Device', 'Sorting' and 'File Option' features as in the Recorded Files.

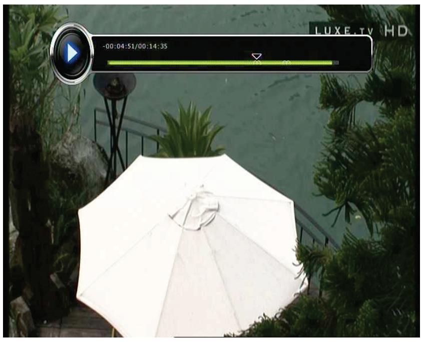
4. Bookmark


LUXE.TV HD
00:02:23/00:12:11

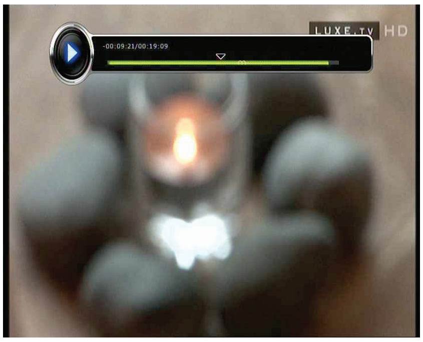
- When the Play bar is displayed, you may move to desired time and book mark it by pressing the **RED** button. Bookmark(s) are indicated with a Green line on the play bar. Also, you may press the **RED** button to activate the play bar to mark your bookmark(s).

- When the play bar is on, user can move / jump between the bookmarks by pressing the **GREEN** button.


-00:06:20/00:16:04
LUXE.TV HD

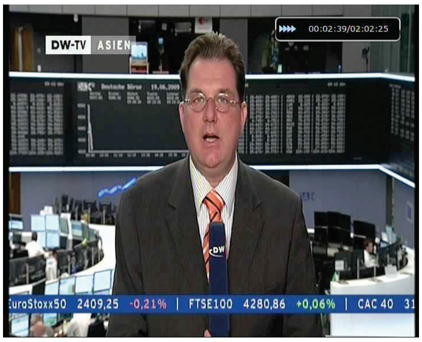

-00:04:51/00:14:35
LUXE.TV HD

- If you wish to delete any Bookmarks, go to that bookmark by pressing the **GREEN** button, then press the **RED** button to delete the current bookmarks.


-00:09:21/00:19:09
LUXE.TV HD

5. Trick mode

- The user can change the speed of a fast forward play with **FF**(Fast Forward) button. Press **FF** button to change the speed to x2, x3, x4, and x5. If you once again press **FF** button in its x5 mode, it returns to normal(x1) speed play.
- You can also change rewind speed with the **REWIND** button. Press **REWIND** button to change the speed to x2, x3, x4, and x5. If you press the **REWIND** button again in it is at the x5 mode, it returns to normal speed.
- You may press the **PAUSE** button at any time to pause a pre-recorded event. Press the **PAUSE** button once again to resume play of the recorded event.

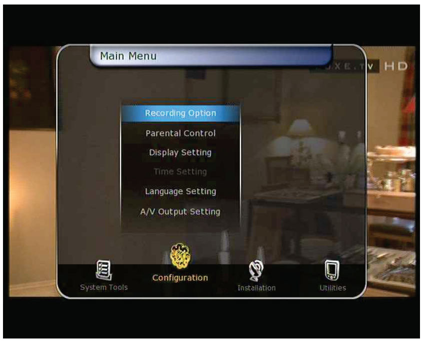

00:02:39/02:02:25
DW-TV ASIEN
uroStoxx50 2409,25 -0,21% | FTSE100 4280,86 +0,06% | CAC 40 31

Menu Map

Main Menu	
System Tools	1. Storage Manager 2. Timer Settings 3. Service List Manager 4. Data Transfer
Configuration	1. Recording Option 2. Parental Control 3. Display Setting 4. Time Setting 5. Language Setting 6. A/V Output Setting
Installation	1. Dish Setting 2. Positioner Setting 3. Service Search 4. Network Setting 5. System Recovery 6. System Information
Utilities	1. Calculator 2. Calendar 3. CAS

Main Menu of Guide

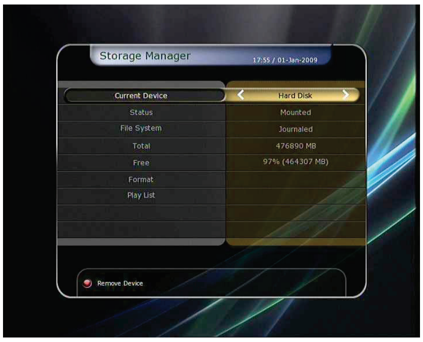
To display the menu, press the **MENU** button at any time. You can select the sub menus by using the **ARROW** buttons.
The selected sub menu becomes highlighted. After selecting (highlighting) the sub menu you want to access, press the **OK** button. If you want to return to the previous menu, press the **MENU** button. And if you want to exit from the menu, press the **EXIT** button.


Main Menu
LUXE.TV HD
Recording Option
Parental Control
Display Setting
Time Setting
Language Setting
A/V Output Setting
System Tools
Configuration
Installation
Utilities

1. System Tools

1.1 Storage Manager

The items in this menu allow you to access and control the storage devices that you want.


Storage Manager
17:55 / 01-Jan-2009
Remove Device

Current Device	Hard Disk
Status	Mounted
File System	Journaled
Total	476890 MB
Free	97% (464307 MB)
Format	
Play List	

- **Current Device :** Select the storage device you want to access with the **ARROW**/**OK** buttons.
- **Status :** You can see the information of current connected devices, such as *'Mounted', 'Not Available'*
- **File System :** It shows the file system of the current device. You can also select desired file system that you want when you format the device.

  NOTE : You must select FAT32 file system, if you want to access the USB storage devices in Windows

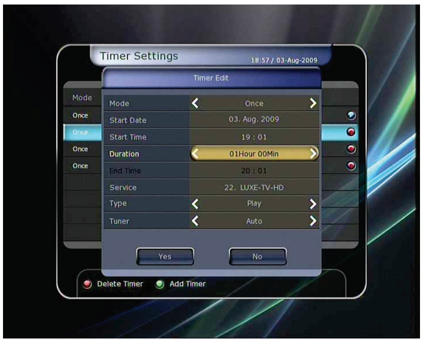
- **Total :** Displays total size of current device.
- **Free :** Displays free size of current device.
- **Format :** If you press the **OK** button to format current device, the device will be formatted with above file system.

  NOTE : When file system is 'Unknown', the device will be formatted with 'Journaled'.

- **Play List** : Press **OK** button to move to **'Play List'** menu directly.

1.2 Timer Settings

Insert a new timer entry or modify an existing timer entry.


Timer Settings
18:57 / 03-Aug-2009
Timer Edit
Mode
Once
Once
Once
Once
Yes
No
Delete Timer
Add Timer

Mode	Once
Start Date	03. Aug. 2009
Start Time	19 : 01
Duration	01Hour 00Min
End Time	20 : 01
Service	22. LUXE-TV-HD
Type	Play
Tuner	Auto

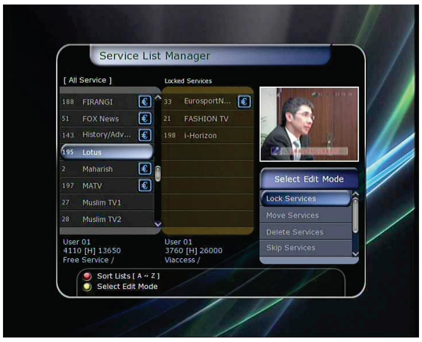
- **To add new timer entry :** Press the **GREEN** button. Timer Edit window will popup. You can set the specific start date, time, duration and service for its reservation. And you can choose one of Timer Modes as '*Once*' or '*Daily*' or '*Weekly*'. You can choose timer operation type as '*Recording*' or just to '*Play*'.
  - If you choose '*Recording*', it will start recording at that time.
  - If you choose '*Play*', it will change and tune to the service that you wish to watch.
- **To modify existing timer entry :** Choose the timer entry which you wish to modify and press the **OK** button.
- **To delete an existing timer entry :** Choose the timer entry that you want to delete and press the **RED** button.

NOTE : If you reserve one or more event through the EPG menu, the reserved event(s) will be added to Timer Settings automatically.

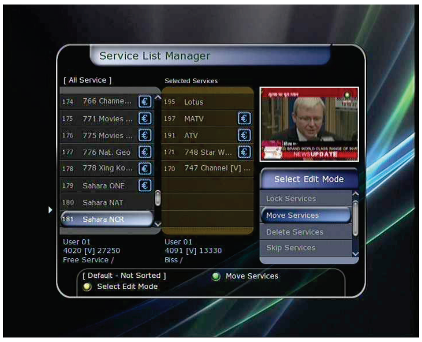
1.3 Service List Manager

Service List Manager menu will appear when you press the **OK** button.
You can select Edit Mode by pressing the **YELLOW** button.

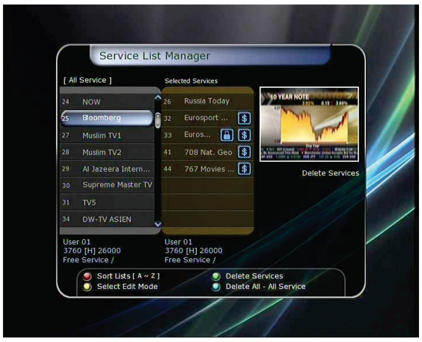
- **Lock Services :** All service lists will be shown on the left side of the window, the middle will show the list of service to be locked. By using the **ARROW** and **OK** buttons, you may move the chosen service to the middle window to lock that service. Services can also be moved back from the middle to the left side to un-lock them.


Service List Manager
[All Service]
Locked Services
188 FIRANGI
51 FOX News
143 History/Adv...
195 Lotus
2 Maharish
197 MATV
27 Muslim TV1
28 Muslim TV2
33 EurosportN...
21 FASHION TV
198 i-Horizon
Select Edit Mode
Lock Services
Move Services
Delete Services
Skip Services
User 01
4110 [H] 13650
Free Service /
User 01
3760 [H] 26000
Viaccess /
Sort Lists [A ~ Z]
Select Edit Mode

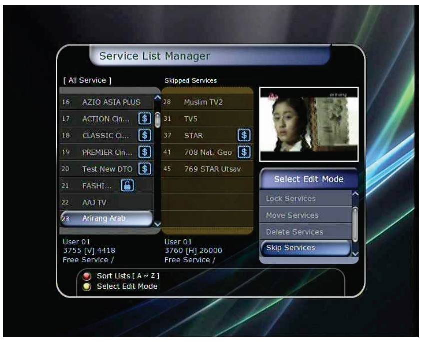
- **Move Services :** All service lists will be shown on left side of the window, services to be moved will be shown on the middle window. Move the service to the middle window by using the **ARROW** and **OK** buttons, then the middle window service will be moved to a specified location when the desired location is selected from the left window.


Service List Manager
[All Service]
Selected Services
174 766 Channe...
175 771 Movies ...
176 775 Movies ...
177 776 Nat. Geo
178 778 Xing Ko...
179 Sahara ONE
180 Sahara NAT
181 Sahara NCR
195 Lotus
197 MATV
191 ATV
171 748 Star W...
170 747 Channel [V] ...
Select Edit Mode
Lock Services
Move Services
Delete Services
Skip Services
User 01
4020 [V] 27250
Free Service /
User 01
4091 [V] 13330
Biss /
[Default - Not Sorted]
Select Edit Mode
Move Services

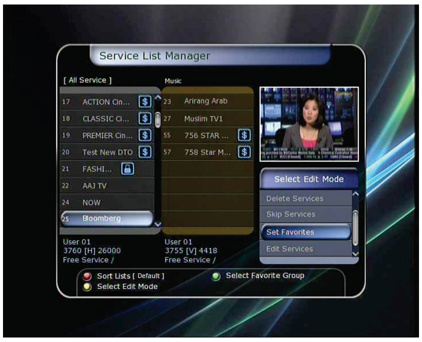
- **Delete Services :** All service lists will be shown on left side of the window. By using the **ARROW** and **OK** buttons you may select services to be deleted by placing them in the middle window. The press the **GREEN** button to delete the selected services.


Service List Manager
[All Service]
Selected Services
24 NOW
25 Bloomberg
27 Muslim TV1
28 Muslim TV2
29 Al Jazeera Intern...
30 Supreme Master TV
31 TV5
34 DW-TV ASIEN
26 Russia Today
32 Eurosport ...
33 Euros...
41 708 Nat. Geo
44 767 Movies ...
10 YEAR NOTE
Delete Services
User 01
3760 [H] 26000
Free Service /
User 01
3760 [H] 26000
Free Service /
Sort Lists [A ~ Z]
Select Edit Mode
Delete Services
Delete All - All Service

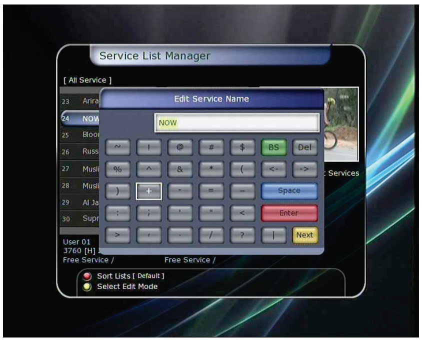
- **Skip Services :** All services will be shown on left side of the window, the middle window will only show the services that are chosen to be skipped. By using the **ARROW** and **OK** buttons you may move the selected services from the left to middle window to skip them.


Service List Manager
[All Service]
Skipped Services
16 AZIO ASIA PLUS
17 ACTION Cin...
18 CLASSIC Ci...
19 PREMIER Cin...
20 Test New DTO
21 FASHI...
22 AAJ TV
23 Arirang Arab
28 Muslim TV2
31 TV5
37 STAR
41 708 Nat. Geo
45 769 STAR Utsav
Select Edit Mode
Lock Services
Move Services
Delete Services
Skip Services
User 01
3755 [V] 4418
Free Service /
User 01
3760 [H] 26000
Free Service /
Sort Lists [A ~ Z]
Select Edit Mode

- **Set Favorite Services :** Use the **ARROW** and **OK** buttons to select your desired favorite group. Once, favorite group is chosen, the left side window will show all service lists and the middle window will only show the selected services of the favorite group selected. By using the **ARROW** and **OK** buttons, you may ADD the desired services to a favorite group or DELETE any from the favorite group. The name of the favorite group can be edited by pressing the **GREEN** button.


Service List Manager
[All Service]
Music
17 ACTION Cin...
18 CLASSIC Ci...
19 PREMIER Cin...
20 Test New DTO
21 FASHI...
22 AAJ TV
24 NOW
25 Bloomberg
23 Arirang Arab
27 Muslim TV1
55 756 STAR ...
57 758 Star M...
Select Edit Mode
Delete Services
Skip Services
Set Favorites
Edit Services
User 01
3760 [H] 26000
Free Service /
User 01
3755 [V] 4418
Free Service /
Sort Lists [Default]
Select Edit Mode
Select Favorite Group

- **Edit Services :** All service names will be shown on the left side of the window. Move the highlighted bar to the service where you want to edit its name and press the **OK** button. Then you will see the virtual keyboard. Using the **ARROW** and **OK** buttons, you can edit the name of the service with the keyboard.

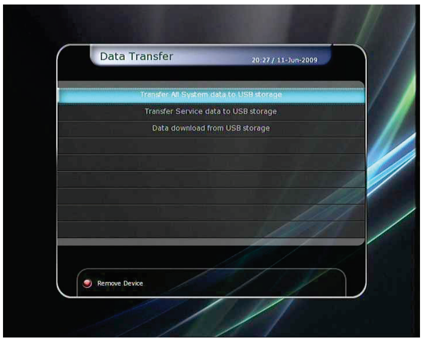

Service List Manager
[All Service]
Edit Service Name
NOW
BS
Del
Space
Enter
Next
Services
User 01
3760 [H]
Free Service /
Free Service /
Sort Lists [Default]
Select Edit Mode

1.4 Data Transfer

When the data transfer task is in process, the Front USB slot is set to a default device slot. But, if no USB device is connected on a front USB slot, then the Rear USB slot is set as a device to be used for the data transfer process.

> ***NOTE : If no USB device is connected on either two (Front & Rear) USB slots, then a Menu item will not be available.***

- **Transfer all System data to USB storage :** If you want to transfer and use BOTH of the current system parameters and service data in the future, this menu will allow you to store all data to your USB device. Press **OK** button to store all current data to an external USB storage.
- **Transfer Service data to USB storage :** If you want to transfer and use ONLY the service data in the future, this menu allows you to store current service data. Press the **OK** button to store the current service data to your external USB storage. The service data can also be viewed and edited on a PC with an appropriate editor (DrEdit) for the file saved.


Data Transfer
20:27 / 11-Jun-2009
Transfer All System data to USB storage
Transfer Service data to USB storage
Data download from USB storage
Remove Device

- **Data download from USB storage device :** This menu allows you to download the saved data from the external USB storage to your STB. Press **OK** button to download data.

2. Configuration

2.1 Recording Option

- Confirmation message when 'stopping' your Recording process :
  - ***Set 'On'*** : When you press the **STOP** button while recording, then a confirmation window is displayed.
  - ***Set 'Off'*** : When you press the **STOP** button while recording, the STB will stop the recording process immediately / instantly with no extra confirmation message.
- **Extra Event Recording :**

  You can add an extra recording time(***1 Min/2 Min/3 Min/4 Min/5 Min/10 Min/15 Min/off***) to scheduled recording events.

  If you set an extra recording time by using the **ARROW** and **OK** buttons, the scheduled recording event will have a 'Start' and 'End' time of additional recording time added to the basic event..

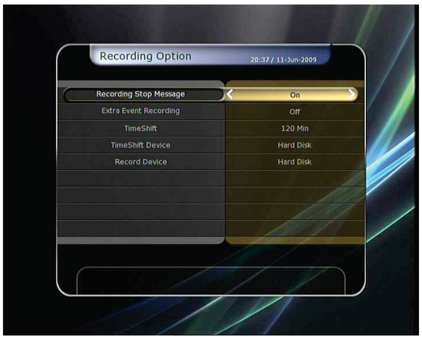
  This option only works for real time events. But, when you schedule a service recording in the Timer Settings menu, this option has no affect.
- **Time-Shift :**

  You can adjust the time-shift in 30 minute intervals.

  (***30 Min/60 Min/90 Min/120 Min***)

  When selected, time shifting function works automatically up to the limit of time that you set, as long as the Time-Shift storage device has enough memory space.

  If you set this option to 'OFF' status, then the time shifting function never works.



Recording Option 20:37 / 11-Jun-2009

Recording Stop Message	On
Extra Event Recording	Off
TimeShift	120 Min
TimeShift Device	Hard Disk
Record Device	Hard Disk

- **Time-Shift Device :**

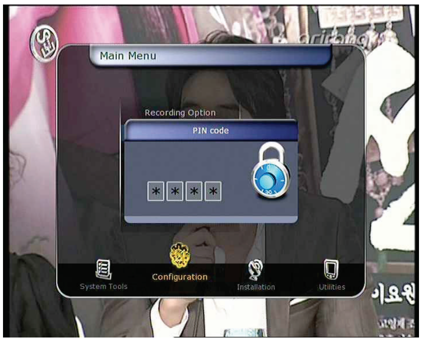
  You can select the Time-Shift Device you want, such as Hard Disk / USB1(Front) / USB2(Rear).
- **Record Device :**

  You can also set a Recording Device which you want to use, such as the Hard Disk / USB1(Front) / USB2(Rear). Recorded files are stored in the device you set.

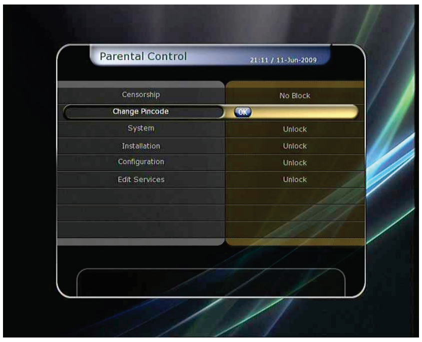
2.2 Parental Control

User's access rights to a service and programs are controlled by a 4-digit secret code that is defined by the user. Whenever you attempt to access the parental control menu, a pop-up window will ask you to input a PIN code. (If necessary, you can change it.)

NOTE : The default PIN code is '0000'



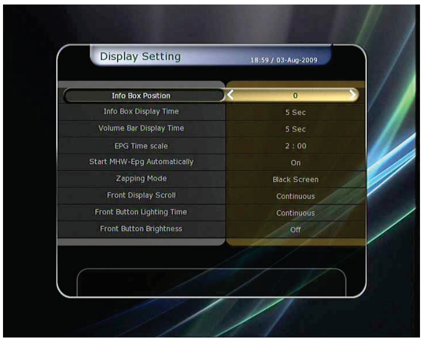
- **Censorship :** Set the parental guidance rating of highlighted censorship classification. The parental level is given as an age-based number.
- **Change Pin code :** To change your PIN code, input the new PIN code using the **NUMERICAL** buttons. To verify the new PIN code, input the new PIN code again.
- **System :** Set the access rights to the System menu.
- **Installation :** Set the access rights to the Installation menu.
- **Configuration :** Set the access rights to the Configuration menu.
- **Edit Service** : Set the access rights to the Edit menu.



Parental Control 21:11 / 11-Jun-2009

Censorship	No Block
Change Pincode	OK
System	Unlock
Installation	Unlock
Configuration	Unlock
Edit Services	Unlock

2.3 Display Setting



Info Box Position	0
Info Box Display Time	5 Sec
Volume Bar Display Time	5 Sec
EPG Time scale	2 : 00
Start MHW-Epg Automatically	On
Zapping Mode	Black Screen
Front Display Scroll	Continuous
Front Button Lighting Time	Continuous
Front Button Brightness	Off

- **Info Box position :** Set a position of the information window.
- **Info Box Display Time :** Set the time duration of the information window being displayed on the screen after changing services.
- **Volume Bar Display Time :** Set the time duration of the volume bar being displayed on the screen after changing audio volumes.
- **EPG Time Range :** You can set the time range in hours which is displayed for a program in the EPG window.
- **Zapping Mode :** You can set the zapping mode as follows (zapping mode is when changing services).
  - ***Black screen :*** Display a black screen when changing between services.
  - ***Freeze :*** Display the last still picture when changing services.
- **Front Display Scroll :** You can set how the VFD Display Scrolls.
  - ***On :*** Continually scroll the service name, if the letters of the service name is over 12 characters.
  - ***Off :*** Scroll service name once, if the letters of the service name is over 12 characters.
- **Front LED Lighting Time :** You can adjust the lighting time of the front LED.
- **Front LED Brightness :** You can adjust brightness of the front LED with 4 steps. By setting '***off***' this option, will turn off the front LED lighting.

2.4 Time Setting

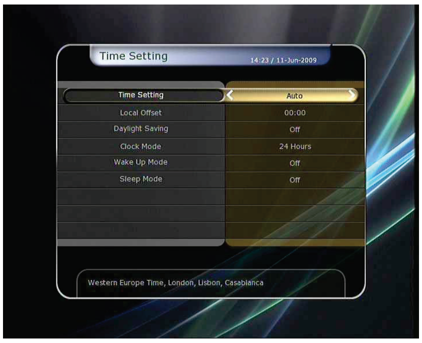
- **Time Setting :** To set the current time, you can use two modes; ***Auto*** or ***Manual***.
  - ***Auto Time Setting***

    Local Offset : Enter the offset value by using the standardized information of current service area.

    Daylight Saving : If you want to apply daylight saving, select the counter by using the **ARROW** buttons.
  - ***Manual Time Setting***

    Date : Enter the calendar date by using **ARROW** buttons then press the **OK** button to finish.

    Time : Enter the time by using the **NUMERIC** buttons.
- **Clock Mode :** Select the type of clock display(12 Hours or 24 Hours) using **ARROW** buttons.



Time Setting	Auto
Local Offset	00:00
Daylight Saving	Off
Clock Mode	24 Hours
Wake Up Mode	Off
Sleep Mode	Off

Western Europe Time, London, Lisbon, Casablanca

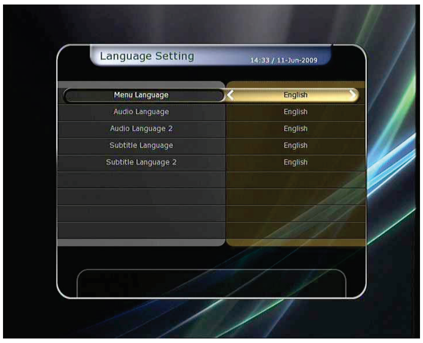
- **Wake Up Mode :** Enter the time for the receiver to automatically power **ON**. And you can choose one of Wake Up Mode as '***off***' or '***Once***' or '***Daily***' or '***Weekly***'.
  - ***Wake Up Date :*** Select the date when the STB is turn on. Press the **OK** button to display calendar.
  - ***Wake Up Days :*** Select a day of the week when the STB is turn on.
  - ***Wake Up Time :*** Enter the wake up time of the STB using the **NUMERIC** buttons.
  - ***Wake Up Service :*** Select the service when the STB is turn on. Press the **OK** button to display the service list.
- **Sleep Mode :** Enter the time for the receiver to automatically switch **OFF** and go to standby mode. And you can choose one of the Wake Up Mode as '***off***' or '***Once***' or '***Daily***' or '***Weekly***'.
  - ***Sleep Date :*** Select the date when the STB is turn off. Press the **OK** button to display the calendar.
  - ***Sleep Days :*** Select a day of the week when STB is turn off.
  - ***Sleep Time :*** Enter the turn-off time of the STB using the **NUMERIC** buttons.

2.5 Language Setting

- **Menu Language :** Select the desired menu language by using the **ARROW** buttons.

NOTE : The menu and operation languages can be changed depending on the country sold. Available languages are subject to change without prior notice.

- **Audio Language :** Select the default language for the audio when changing services. If no other language is provided, then the default language of current will be automatically selected.
- **Subtitle Language :** Select the default language for subtitle when changing service.



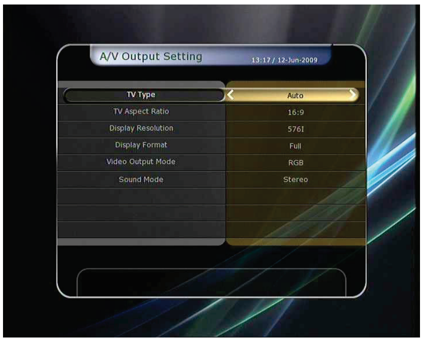
Language Setting

14:33 / 11-Jun-2009

Menu Language	English
Audio Language	English
Audio Language 2	English
Subtitle Language	English
Subtitle Language 2	English

2.6 A/V Output Setting

- **TV Type :** Select the TV types.(*PAL/NTSC/Auto*) In Auto mode, the STB is automatically selected to NTSC or PAL accordingly to the service played.
- **TV Aspect Ratio :** Select the aspect ratio of TV which is connected to the STB.(4:3/16:9). This menu must be set prior to selecting the Display Format function.
- **Display Resolution :** Select the Display Resolution of the screen by using **ARROW** or **OK** button. You can also change the resolution with **Resolution** button in the remote. Each time you press the **Resolution** button, the resolution changes in the following sequence: ***576i > 576p > 720p > 1080i***



A/V Output Setting

13:17 / 12-Jun-2009

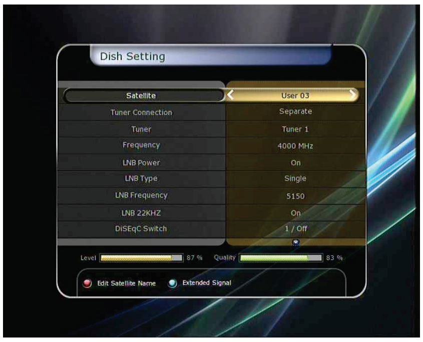
TV Type	Auto
TV Aspect Ratio	16:9
Display Resolution	576I
Display Format	Full
Video Output Mode	RGB
Sound Mode	Stereo

NOTE : Please note that your TV may not show a picture depending on the Display Resolution set by your STB as well as if set to PAL when NTSC is required or vice versa. If you set the Display Resolution as SD(576i), your TV cannot display anything when the TV is connected to the Component Video(YPbPr). If you set the Display Resolution as HD(more than 576p), your TV cannot display anything when the TV is connected to the SCART or Composite Video output of the STB. In case of HDMI, your TV can display a picture for all of the resolution settings of the STB. But it is also possible that your TV may not display a picture with 576i, because some HDTV's does not support 576i.

- **Display Format :**
  In case of a 4:3 ratio TV set, you can select ***Letter Box*** or ***Pan&Scan***. In case of a 16:9 ratio TV set, you can select ***Pillar Box*** or ***Full Screen***.
  - ***16:9 Display format on 4:3 TV set***
    Letter Box : You can see the full screen of 16:9, but top and bottom edges of your TV screen display black horizontal Pillars.
    Pan&Scan : The picture is displayed in full on your 4:3 TV screen, but left and right sides of the original picture cannot be displayed.
  - ***4:3 Display format on 16:9 TV set***
    Pillar Box : You can see the full screen of 4:3, but left and right sides of your TV screen display black vertical Pillars. 4:3
    Full Screen : The picture is displayed in full on your 16:9 TV screen, but left and right sides of the original picture is displayed with widening of the screen from left and right. Because of the artificial widening, the TV picture will be distorted.
- **Video Output Mode :** According to Display Resolution, you can select the ***Video Output Mode***.
  - ***In case of More than 576p(HD) :*** The *'RGB'* output will be disabled automatically. You can select Video Output Mode (***CVBS, YPbPr, YC***).
  - ***In case of 576i(SD) :*** The *'YPbPr'* output will be disabled automatically. You can select Video Output Mode (***CVBS, RGB, YC***).
- **Sound Mode :** Set the audio mode output among the RCA jack, optical SPDIF and HDMI.(***Stereo/Mono/Left/Right***).

3. Installation

3.1 Dish Setting



Satellite	User 03
Tuner Connection	Separate
Tuner	Tuner 1
Frequency	4000 MHz
LNB Power	On
LNB Type	Single
LNB Frequency	5150
LNB 22KHZ	On
DiSEqC Switch	1 / Off

Level 87 % Quality 83 %

Select the satellite/antenna and LNB settings for service search. The values that are set in this menu will be available for selection in other service searching menus.

- **Satellite :** Select the satellite which you want to do a search for.
  - Press the **LEFT/RIGHT ARROW** button to select the satellite.
  - If you press the **OK** button, the entire satellite list will be displayed.
  - Select the desired satellite name to search.
  - If the desired satellite name is not listed then select User Defined.
- **Tuner Connection :** You can set connection type between Tuner and LNB.
  - ***Separate :*** Set the connection type option to '***Separate***', if each of the tuners are connected to different LNBs (***LNB IN_1 / LNB IN_2***) individually / independently.

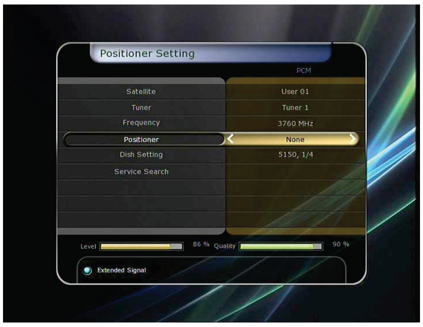
    This Separate connection is used, when each two tuners are connected to different LNBs. Due the independent & separate connections between two Tuners & LNBs, user can watch all the services scanned by one tuner(1), while the other tuner(2) is set for recording at the same time.
  - ***Loop-Through :*** Set the connection type option to '***Loop-Through'***, if you have connected the ***LNB OUT_1*** and ***LNB IN_2*** with a loop-through cable. In this case, you would have some limitations in using some features such as dual recording.

    This connection is used when the Tuner(1) is connected with LNB output, and the Loop-through output of the Tuner(1) is connected with input of the Tuner(2). This is the way to use & activate both tuners when you have only 1 LNB with your dish antenna. However, this will limit the possible tuning range (Satellite & Polarization) of the 2nd tuner, while the 1st tuner is being used for its recording process (because the input signal of 2nd tuner is dependent of the signal which the 1st tuner is tuned to).

NOTE : User should make the appropriate connection by choosing the right tuner connections between the Loop-Through and Separate connections. Due to the difference of these two connections, wrong LNB and Tuner connection may cause the loss of signal reception. We strongly recommend the use of professional service personnel to make this installation and connection if your knowledge is limited.

- **Tuner :** Select the tuner which you want to set (***Tuner 1/ Tuner 2***). If you set ***'Loop-Through'*** on the menu(*Installation-Dish Setting-Tuner Connection*), this menu(Tuner) will be disabled automatically.
- **Frequency :** Select the satellite frequency which you want to use for checking the signal.
- **LNB Power :** Select the LNB power on or off.
- **LNB Type :** Select the LNB type.
- **LNB Frequency :** Select the local oscillator (L.O.). frequency that is specified for the LNB used..
  - Use the **LEFT/RIGHT ARROW** buttons to select the LNB frequency.
  - If the required LNB frequency is not listed, then enter the frequency manually using the **NUMERIC** buttons.
  - When you select Universal LNB type, both 9750 and 10600 are supported at the same time. And then the LNB 22KHz setting is disabled.
- **LNB 22KHz :** When you use a separate coax 22 KHz tone switch box, make the 22 KHz tone switch enabled or disabled to select the input you desire of the tone switch.
- **DiSEqC Switch :** If you use ***DiSEqC 1.0*** or ***DiSEqC 1.1*** switch, select one of the DiSEqC inputs.
- **Service Search :** Press the **OK** button to move to the Search Menu

3.2 Positioner Setting



Positioner Setting

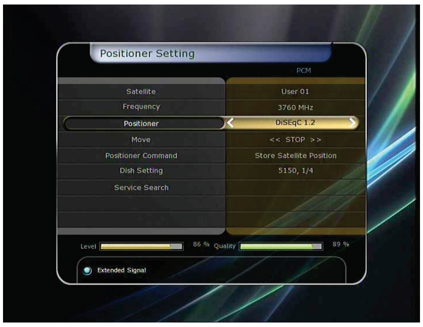
PCM

Satellite	User 01
Tuner	Tuner 1
Frequency	3760 MHz
Positioner	None
Dish Setting	5150, 1/4
Service Search	

Level 86 % Quality 90 %

Extended Signal

- **Satellite :** Select the satellite which you want to search for the Service.
    - Press the **LEFT/RIGHT ARROW** button to select the satellite.
    - If you press the **OK** button, a complete satellite list will be displayed.
    - Select the wanted satellite name.
    - If the desired satellite name is not listed then select User Defined.
- **Tuner :** Select tuner that you want to set (***Tuner 1/ Tuner 2***). If you have set ***'Loop-Through'*** in the menu(*Installation-Dish Setting-Tuner Connection*), this menu(Tuner) will be automatically disabled.
- **Frequency :** Select the satellite frequency you want to use to check for a signal.



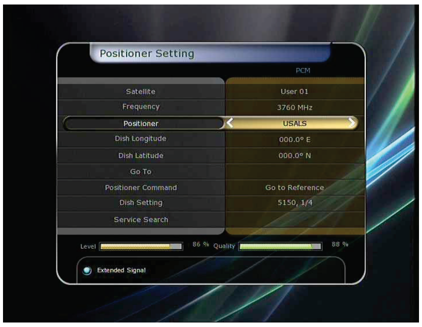
Positioner Setting

PCM

Satellite	User 01
Frequency	3760 MHz
Positioner	DiSEqC 1.2
Move	<< STOP >>
Positioner Command	Store Satellite Position
Dish Setting	5150, 1/4
Service Search	

Level 86 % Quality 89 %

Extended Signal



Positioner Setting

PCM

Satellite	User 01
Frequency	3760 MHz
Positioner	USALS
Dish Longitude	000.0º E
Dish Latitude	000.0º N
Go To	
Positioner Command	Go to Reference
Dish Setting	5150, 1/4
Service Search	

Level 86 % Quality 88 %

Extended Signal

- **Positioner :** Select the positioner.
    - ***None : (No Positioner)***
    - ***Using DiSEqC 1.2 :***

      Move : To move the dish, press **LEFT/RIGHT** button.

      Fine Move : To move the dish in smaller steps, press the **LEFT/RIGHT ARROW** button.

      Step : Set to positioner moving steps as 1, 2, 3, 4

      Positioner Command : To use various positioner commands, press the **OK** button. Then, available positioner commands will appear.
    - ***Using USALS :***

      Move : To move the dish, press the **LEFT/RIGHT** button.

      Fine Move : To move the dish in smaller steps,, press the **LEFT/RIGHT ARROW** button.

      Step : Set to positioner moving steps as 1, 2, 3, 4

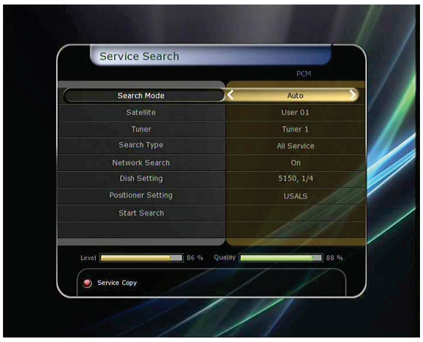
      Dish Longitude : Enter the longitude position of the antenna using the **NUMERIC** buttons.

      Dish Latitude : Enter the latitude using the **NUMERIC** buttons.

      Go To : Press the **OK** button to rotate the dish to the selected antenna position.
- **Dish Setting :** Press the **OK** button to move to *Dish Setting* menu directly.
- **Service Search :** Press the **OK** button to move to *Service Search* menu directly.

3.3 Service Search

You can select the following search mode.



Service Search

PCM

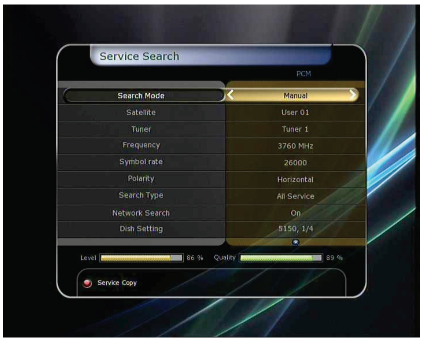
Search Mode	Auto
Satellite	User 01
Tuner	Tuner 1
Search Type	All Service
Network Search	On
Dish Setting	5150, 1/4
Positioner Setting	USALS
Start Search	

Level 86 % Quality 88 %

Service Copy

- **Auto Search Mode :**
    - ***Satellite :*** Press the **OK** button to select the target satellite to be searched.
    - ***Tuner :*** Select tuner what you want to set (***Tuner 1/ Tuner 2***). If you set ***'Loop-Through'*** on the menu (*Installation-Dish Setting-Tuner Connection*), this menu (Tuner) will be automatically disabled.
    - ***Search Type :*** Select the search type.
    - ***Network Search :*** You can select Off or On. When you select *'On'*, you can find more transponders using the home network. As it refers to NIT during searching, if there is the frequency information of other transponder, it searches the other transponder besides the transponder that the user inputs.
    - ***Dish Setting :*** Press the **OK** button to move to Dish Setting menu directly.
    - ***Positioner Setting :*** Press the **OK** button to move to the Positioner Setting menu directly.
    - ***Start Search :*** Press the **OK** button to start search.

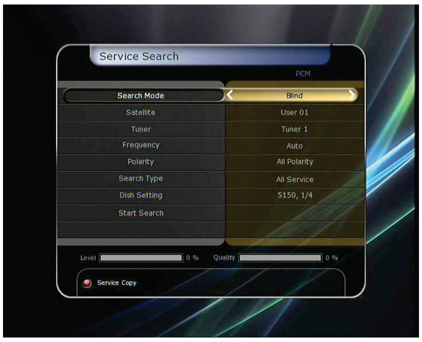
- **Manual Search Mode :**



Search Mode	Manual
Satellite	User 01
Tuner	Tuner 1
Frequency	3760 MHz
Symbol rate	26000
Polarity	Horizontal
Search Type	All Service
Network Search	On
Dish Setting	5150, 1/4

  - ***Satellite :*** Press the **OK** button to select the target satellite for search.
  - ***Tuner :*** Select the tuner which you want to use (***Tuner 1/ Tuner 2***). If you set ***'Loop-Through'*** on the menu(*Installation-Dish Setting-Tuner Connection*), this menu(Tuner) will be automatically disabled.
  - ***Frequency :*** Select the frequency from the list to search.
  - ***Symbol rate :*** Enter the symbol rate using the **NUMERIC** buttons.
  - ***Polarity :*** Select the polarity. (***Vertical/Horizontal***)
  - ***Search Type :*** Select the search type.
  - ***Network Search :*** You can select Off or On. When you select 'On', you can find more transponders using the home network. As it refers to NIT during searching, if there is the frequency information of other transponder, it searches the other transponder besides the transponder that the user inputs.
  - ***Dish Setting :*** Press the **OK** button to move to the Dish Setting menu directly.
  - ***Start Search :*** Press the **OK** button to start a search

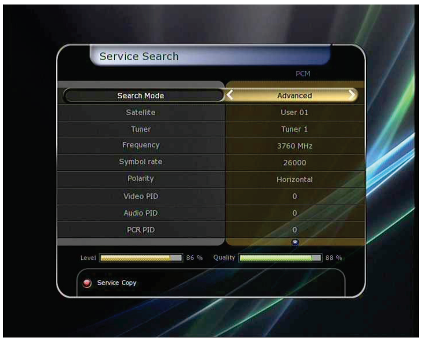
- **Blind Search Mode :**



Search Mode	Blind
Satellite	User 01
Tuner	Tuner 1
Frequency	Auto
Polarity	All Polarity
Search Type	All Service
Dish Setting	5150, 1/4

  - ***Satellite :*** Press the **OK** button to select multiple satellites.
  - ***Tuner :*** Select the tuner which you want to set (***Tuner 1/ Tuner 2***). If you set ***'Loop-Through'*** on the menu(*Installation-Dish Setting-Tuner Connection*), this menu(Tuner) will be automatically disabled.
  - ***Frequency :*** Set ***Auto*** to search whole frequency, Set ***Manual*** to search only desired frequency.
  - ***Polarity :*** Select the polarity. (***All Polarity/Vertical/Horizontal***)
  - ***Search Type :*** Select the search type.
  - ***Dish Setting :*** Press the **OK** button to move to the Dish Setting menu directly.
  - ***Start Search :*** Press the **OK** button to start a search.

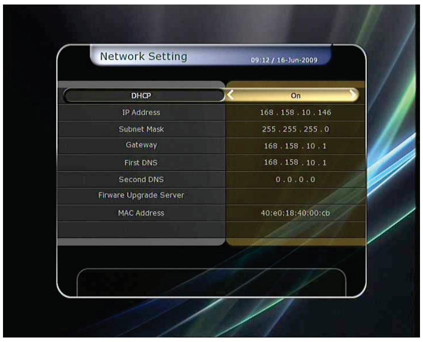
- **Advanced Search Mode :**
  - ***Satellite :*** Press the **OK** button to select the target satellite for search.
  - ***Tuner :*** Select the tuner which you want to set (***Tuner 1/ Tuner 2***). If you set ***'Loop-Through'*** on the menu(*Installation-Dish Setting-Tuner Connection*), this menu(Tuner) will be automatically disabled.
  - ***Frequency :*** Select the frequency from the list to search.
  - ***Symbol rate :*** Enter the symbol rate by using the **NUMERIC** buttons.
  - ***Polarity :*** Select the polarity. (***Vertical/Horizontal***)
  - ***Video PID :*** Enter the video PID using the **NUMERIC** buttons.
  - ***Audio PID :*** Enter the audio PID using the **NUMERIC** buttons.
  - ***PCR PID :*** Enter the PCR PID using the **NUMERIC** buttons.
  - ***Start Search :*** Press the **OK** button to start a search.



Search Mode	Advanced
Satellite	User 01
Tuner	Tuner 1
Frequency	3760 MHz
Symbol rate	26000
Polarity	Horizontal
Video PID	0
Audio PID	0
PCR PID	0

3.4 Network Setting

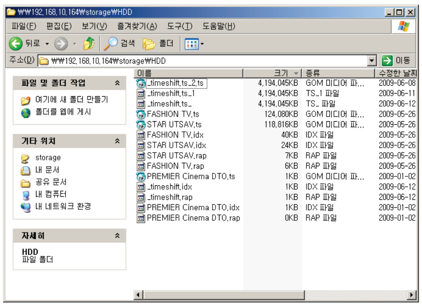
To use a Network connected to the STB Ethernet port, you have to prepare the STB Network settings. When the STB and a PC are connected via a network, you can access the files of the STB storage device such as the SATA Hard Disk Drive (HDD) or USB storage device.



DHCP	On
IP Address	168 . 158 . 10 . 146
Subnet Mask	255 . 255 . 255 . 0
Gateway	168 . 158 . 10 . 1
First DNS	168 . 158 . 10 . 1
Second DNS	0 . 0 . 0 . 0
Firware Upgrade Server	
MAC Address	40:e0:18:40:00:cb

> *NOTE : If you use DHCP function of router, you can set easily network configuration.*

- **DHCP :** You can select ***On/Off*** for the Dynamic Host Configuration Protocol (DHCP) to get the all configuration from the router.
  - **If you select *'On'*** : You will obtain the configuration from network and be set up automatically. In this case, the remaining item (***IP Address, Subnet Mask, Gateway, First DNS, Second DNS***) are automatically set and you don't have to configure them manually.
  - **If you select *'Off'*** : You have to input the IP address manually together with the following data.
- **IP Address, Subnet Mask, Gateway, First DNS, Second DNS :** You can input the address with the **OK** button, **NUMERIC** buttons and the **LEFT/RIGHT** buttons. You can move to the next item of Subnet Mast with the **DOWN** button and you can configure the following items in the same way.
- **Firmware Upgrade Server :** This feature is not supported for the time being. It will be available in the future.
- **MAC Address :** This will display the MAC address of the STB Ethernet interface and is a fixed assignment unique to each STB.

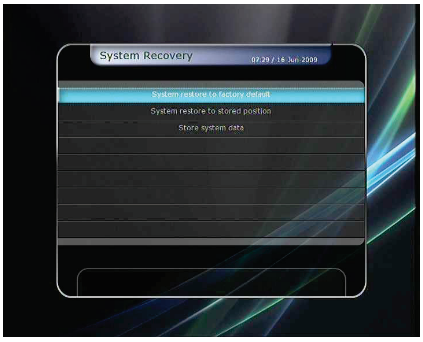


주소(D) ₩₩192.168.10.164₩storage₩HDD

이름	크기	종류	수정한 날
_timeshift.ts_2.ts	4,194,045KB	GOM 미디어 파...	2009-06-08
_timeshift.ts_1	4,194,045KB	TS_1 파일	2009-06-11
timeshift.ts	4,194,045KB	TS_ 파일	2009-06-12
FASHION TV.ts	124,080KB	GOM 미디어 파...	2009-05-26
STAR UTSAV.ts	118,816KB	GOM 미디어 파...	2009-05-26
FASHION TV.idx	40KB	IDX 파일	2009-05-26
STAR UTSAV.idx	24KB	IDX 파일	2009-05-26
STAR UTSAV.rap	7KB	RAP 파일	2009-05-26
FASHION TV.rap	6KB	RAP 파일	2009-05-26
PREMIER Cinema DTO.ts	1KB	GOM 미디어 파...	2009-01-02
_timeshift.idx	1KB	IDX 파일	2009-06-12
_timeshift.rap	1KB	RAP 파일	2009-06-12
PREMIER Cinema DTO.idx	1KB	IDX 파일	2009-01-02
PREMIER Cinema DTO.rap	0KB	RAP 파일	2009-01-02

- **Control of the files via the network and your PC.**
  - Check the IP Address of the STB on the Network Setting menu.
  - Press Enter button on your PC, after writing IP Address on the web browser address line.
    Ex.) //168.158.10.146/storage
  - You can see the folder name of HDD, USB1 and USB2 in the Storage folder.
    HDD : SATA HDD (internal HDD or external-SATA)
    USB1 : Front USB Storage Device
    USB2 : Rear USB Storage Device
  - You may be able to load and retrieve data between the PC and the STB via the browser

3.5 System Recovery


System Recovery
07:29 / 16-Jun-2009
System restore to factory default
System restore to stored position
Store system data

- **System restore to factory default :** This menu allows you to restore the factory set values in case the user has encountered some problems after changing any new parameters of service data and other parameters which may be in error. Press the **OK** button to erase all services and restore default setting.
- **System restore to stored position :** This menu allows you to restore the stored values including service data and system parameters. Press the **OK** button to restore all data.
- **Store system data :** If you want to use system parameters and service data in the future, this menu allows you to store current state. Press the **OK** button to store current state.

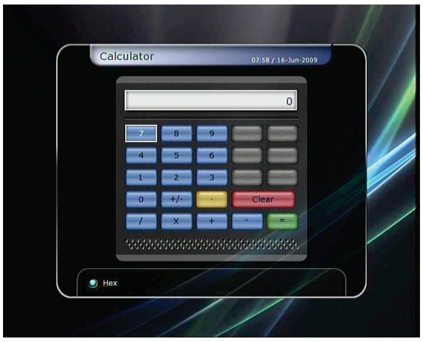
3.6 System Information

This menu displays general information about the hardware and software version of your receiver.

4. Utilities

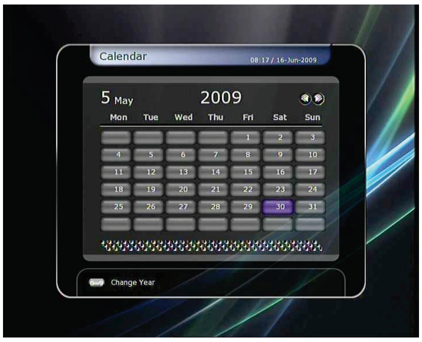
4.1 Calculator

To use the calculator, highlight the calculator and press the **OK** button.


Calculator
07:58 / 16-Jun-2009
0
7 8 9
4 5 6
1 2 3
0 +/- . Clear
/ x + - =
Hex

4.2 Calendar

To display the calendar, highlight the calendar and press the **OK** button. Utilize the **ARROW** buttons to choose the date. If you press **PAGE UP/DOWN** button, you can see the past/next month of the calendar.

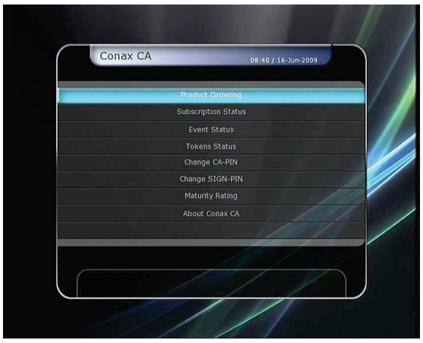

Calendar
08:17 / 16-Jun-2009
5 May
2009
Mon Tue Wed Thu Fri Sat Sun
Change Year

4.3 CAS (Conditional Access System)

- **Smart Card Slot**
  - **Conax smart card menu**

    To watch scrambled services, you need to have an appropriate Conax smart card from the service providers. Insert a valid smart card into smart card slot (only the bottom slot of the two is active). The message of 'Smart card Initializing…' will appear on the screen. After the message disappears, you can watch the service you want.
  - **Smart card information**

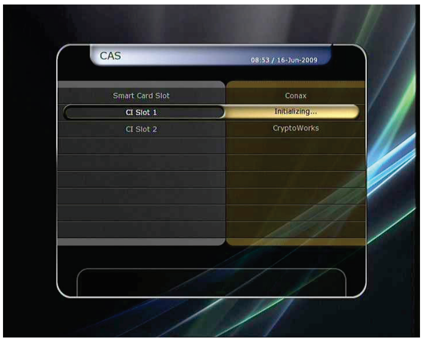
    You can view the current status of smart card. Select the slot which you want to view using the **ARROW** buttons. And press the **OK** button.


Conax CA
08:40 / 16-Jun-2009
Product Ordering
Subscription Status
Event Status
Tokens Status
Change CA-PIN
Change SIGN-PIN
Maturity Rating
About Conax CA

- **CAM Initializing**

  To watch scrambled services, you need to have a Common Interface Conditional Access Module(CAM) and an appropriate smart card from the provider. Insert the CAM together with a valid smart card into CI slot (two slots available). The message of '***CI Initializing…***' will appear on the screen. After the message disappears, you can watch the service you want.
- **CAM information**

  You can view the current status of CAM. Select the slot which you want to view using the **ARROW** buttons, and press the **OK** button. If the CAM is available, you can view information about each slot.


CAS
08:53 / 16-Jun-2009
Smart Card Slot
CI Slot 1
CI Slot 2
Conax
Initializing...
CryptoWorks

NOTE : The displayed information of each CAMs may be different depending on the CAM used.

Troubleshooting

Problem	**Solution**
Does not display any message on the front panel.	✓ Check the main power cable and check that it is plugged into a suitable power outlet. ✓ Check the STB main power switch 'ON' at the rear of the STB.
No Picture	✓ See ***'Does not display any message on the front panel'*** above. ✓ To match the STB system with your TV system (PAL/NTSC), press *V.Format* button until a picture is displayed. ✓ Check the video output port is firmly connected to the TV or VCR. ✓ If you are using the RF output, check that the RF lead is connected firmly to the STB and TV/VCR. ✓ Check that you have selected the Video Input on your TV. ✓ Press the STB button on the remote to assure you are controlling the STB and no other device with the remote. ✓ Check the brightness level of the TV. ✓ Check the resolution that your TV supports, and set the proper resolution with the remote *Resolution* button to obtain a picture.
Poor picture quality	✓ See ***'No Picture' above.*** ✓ Check the signal level, if this is low then tries adjusting the alignment of your dish.
No Sound	✓ See ***'No Picture'*** above. ✓ Check the volume level of the TV and STB. ✓ Check the Mute status of the TV and STB.
Remote Control does not operate	✓ Point remote control directly towards the STB. ✓ Check that the STB button lights up when you press any button ✓ Check and replace batteries.
No or Bad Signal	✓ Check the LNB ; Replace the LNB if necessary. ✓ Check the cable from the LNB. ✓ Check the position of the dish; realign dish if necessary. ✓ If you are using a DiSEqC 1.0 switch, check that you have connected and programmed the LNBs to the correct connections on the switch. ✓ Check the 'Signal Level' and the 'Signal Quality'.

Specifications

Tuner & Channel Decoder

Input Connector	F-type, IEC 169-24, Female
Loop through out	F-type, IEC 169-24, Female
Frequency Range	950MHz ~ 2150MHz
Input Impedance	75Ω, unbalanced
Signal Level	-65 to -25dBm
LNB Power	13/18VDC, max.400mA
22KHz Tone	(22±2)KHz, (0.6±0.2)V
DiSEqC Control	V1.0/1.2/USALS Compatible
Demodulation	QPSK / 8PSK
Input Symbol Rate	2 ~ 45 Ms/s(QPSK of DVB-S) 2 ~ 45 Ms/s(QPSK of DVB-S2) 2 ~ 37 Ms/s(8PSK of DVB-S2)
FEC Decoder	1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7(DVB-S) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10 (DVB-S2)

MPEG Transport Stream A/V Decoding

Transport Stream	H.264(MPEG-4 part 10, MPEG-4/AVC and H26L) MPEG-II ISO/IEC 13818-2/11172-2
Profile Level	MPEG-4/AVC MP@L4, MPEG-II MP@HL
Input Rate	Max. 15Mbit/s
Video Formats	4:3 Letter Box, 4:3 PanScan, 16 : 9
Video Resolution	720 x 576i, 720 x 576p, 720 x 480i, 720 x 480p 1280 x 720p, 1920 x 1080i
Audio Decoding	Dolby AAC, AC-3, MPEG-1 Layer 1,2 and 3
Audio Mode	Stereo/Joint stereo/Mono, Dolby AC-3
Sampling Rate	32KHz, 44.1KHz and 48KHz(According to input)

Main System

Main Processor	STi chipset
Memory	Flash-ROM : 32 Mbyte SDRAM : 192 Mbytes EEPROM : 128 bytes

Audio / Video & Data IN/OUT

TV SCART	RGB, Y/C, CVBS Video, Audio L, R Output
VCR SCART	CVBS Video, Audio L, R Output RGB Video input, CVBS Video, Audio L, R Input
RCA	CVBS Video Output, Audio L, R Output
Component	YPbPr Video Output
HDMI	Video & Audio Output
OPTIC	AC-3 Dolby Digital (SPDIF)
RS-232C	9 pin D-SUB (Male) type, Transfer rate 115Kbps
USB	USB 2.0 Host Front & Rear Support. (5 Vdc 500 mA max.)
Ethernet	RJ45 connector, 100 Mbps

Front Panel

Slot	1 USB 2.0 Host port 2 Common interface PCMCIA slot 1 Smart Card Slot
Display	VFD(Vacuum Fluorescent Display) - 12Digit
Buttons	7 Buttons (Standby, Menu, Select, CH UP/DOWN, Volume UP/DOWN)

Power Supply

Input Voltage	AC 100 ~ 250V, 50/60Hz
Type	SMPS
Power Consumption	Max. 60W
Standby Power	Max. 1W
Protection	Separate Internal Fuse & Lighting protection

Physical Specification

Size (W x H x D)	430mm X 60mm X 270mm
Weight (Net)	2.7 Kg (Excluding HDD)
Operating Temp.	0℃ ~ +45℃
Storage Temp.	-10℃ ~ +70℃

Code Table for Universal Remote Control Unit

1. Key Table

No	KEY NAME	TV	DVD	VCR
1	STB			
2	TV	V		
3	DVD		V	V
4	⏻	V	V	V
5	🔇	V		
6	V.Format			
7	SLEEP			
8	TV/RAD, Source	V		
9	Resolution			
10	◀◀		V	V
11	▶▶		V	V
12	▶ Time		V	V
13	⏮		V	
14	⏭		V	
15	●		V	V
16	⏸		V	V
17	■		V	V
18	✓			
19	📖	V		
20	📖	V		
21	🔈?	V		
22	⊞	V		
23	INFO			
24	RECALL			
25	MENU	V	V	
26	EXIT	V	V	
27	▲	V	V	
28	▼	V	V	
29	◀	V	V	
30	▶	V	V	
31	OK	V	V	
32	≪P			
33	FAV			
34	P≫			

No	KEY NAME	TV	DVD	VCR
35	VOL +	V		
36	VOL -	V		
37	CH +	V		V
38	CH -	V		V
39	EPG			
40	⏏			
41	◳			
42	⤢			
43	▤			
44	0	V	V	V
45	1	V	V	V
46	2	V	V	V
47	3	V	V	V
48	4	V	V	V
49	5	V	V	V
50	6	V	V	V
51	7	V	V	V
52	8	V	V	V
53	9	V	V	V
54	▭			
55	☰			
56	REV1			
57	REV2			
58	REV3			
59	REV4			
60	REV5			
61	REV6			

2. TV Brands

Refer to ***'5.Multi-Brand IR Remote Controller Setting'*** *in the 15 page of this manual*

TV Brands	*Code*				
ADMIRAL	***050***	***134***			
AKAI	***093***	***049***	***123***		
ALBA	***068***				
ALBIRAL	***116***				
ALCATEL	***022***				
AMSTRAD	***158***	***021***			
ANAM	***155***	***156***	***157***		
ARC EN CIEL	***028***	***039***	***043***	***145***	***081***
ARISTONA	***099***	***049***	***050***	***019***	***142***
	149	***078***			
ARTHUR MARTIN	***053***	***139***	***117***	***120***	***122***
	123	***125***	***128***		
ASA	***050***	***055***	***057***	***113***	***134***
ATLANTIC	***099***	***111***			
AUDIOSONIC	***054***				
AUSIND	***053***				
AUTOVOX	***099***	***144***	***055***	***019***	***057***
	069				
BAIRD	***083***				
BASICLINE	***006***				
BAUR	***011***				
BEKO	***023***	***049***			
BLAUPUNKT	***094***	***100***	***102***	***111***	***114***
BRANDT	***028***	***039***	***040***	***043***	***145***
	081				
BRION VEGA	***050***				
BRUNS	***048***	***050***			
BSR	***059***	***110***	***132***		
BUSH	***033***	***068***	***124***	***074***	
CENTURY	***098***	***101***	***050***	***079***	***136***
CGE	***016***	***101***	***124***	***079***	***132***
	136				
CIHAN	***065***				
CLARIVOX	***048***	***116***			
CONDOR	***099***	***111***			
CONTEC	***087***				
CONTINENTAL EDITION	***028***	***039***	***040***	***043***	***145***
	081				
CROSLEY	***101***	***050***	***109***		
CROWN	***147***				
CTC CLATRONIC	***046***				

TV Brands	Code				
DAEWOO	089				
DECCA	099	060	063	115	118
DEGRAAF	036				
DIXI	049	090			
DRYNATRON	049				
DUAL	099	141			
DUAL-TEC	096	099	132		
DUMONT	046	050	057	073	
ELBE		016	116		
ELBIT	065				
ELCIT	046	097	103	050	109
	127	132			
ELMAN	046	132			
ELTA	090				
EMERSON	158	098	050		
ERRES	049	142			
EUROPHON	098	046	097	099	051
	115	132			
FERGUSON	146	040	041	150	057
	061	116	149		
FIDELITY	099	149			
FINLUX	034	046	053	055	057
	109	113	073	074	079
FISHER	015	048	050	052	109
	136				
FORGESTONE	149				
FORMENTI	099	053	109	111	125
FORTRESS	137				
FRABA	075				
FRONTECH	054				
FUJITSU	025				
FUNAI	054	059			
GBC	109	132			
GEC	099	060	109	115	134
	088				
GELOSO	103	109	132	134	090
GOLDSTAR	092	003	017	099	049
	075	076	077	090	152
GOODMANS	033	049	060	077	
GORENJE	066	136			
GREATZ	001	058	109	122	123
	128	129	130	134	

TV Brands	Code				
GRANADA	033	099	049	058	060
	142	115	125	134	
GRUNDIG	094	100	057	058	108
	112	114	082		
HANSEATIC	033	047	099	049	109
	139	111			
HANTAREX	097				
HEMMERMANN	127				
HIFIVOX	028	039	043	145	081
HINARI	158	033	045	143	090
HITACHI	014	033	034	036	099
	145	056	109	139	110
	067	117	132	134	084
	091	081	088		
HYPER	093	099			
IMPERIAL	016	101	124	079	132
	133				
INGELEN	001	058	109	122	128
	129	130	134		
INKEL	000				
INNO HIT	093	098	097	099	143
	077	090			
INTERFUNK	047	049	050	145	058
	109	142	123	128	129
	091				
IRRADIO	093	143	053	077	090
ITT	001	140	058	105	109
	122	123	128	148	129
	130	134	135	083	089
JVC	033	154			
KTV	099				
KAISUI	006				
KARCHER	006				
KENDO	098				
KENNEDY	144	019	109		
KORTING	050	059	111		
KRIESLER	099	049	050	019	142
	149	078			
LENOIR	099				
LOEWE OPTA	008	097	047	049	050
	115	072			
LOGIK	118	149			

TV Brands	***Code***				
LUMA	***049***	***120***	***134***		
LUXOR	***058***	***139***	***117***	***120***	***123***
	129	***135***	***083***		
McMICHAEL	***088***				
MEMOREX	***090***				
MAGNAFON	***046***	***097***	***099***	***051***	***053***
	115				
MARANTZ	***049***				
MATSUI	***158***	***099***	***106***	***060***	***118***
	068	***134***	***090***		
MAGNADYNE	***046***	***097***	***103***	***050***	***109***
	115	***127***	***132***		
METZ	***094***	***050***	***114***	***133***	
MINERVA	***094***	***100***	***057***	***058***	***114***
MISTRAL	***149***				
MITSUBISHI	***033***	***035***	***047***	***049***	***050***
	062	***118***	***119***	***148***	***080***
	138				
MIVAR	***097***	***099***	***115***	***077***	
MULTITECH	***046***	***099***	***115***	***136***	
MURPHY	***134***				
MAONIS	***096***	***144***	***019***	***110***	***134***
NATIONAL	***042***	***104***	***109***		
NEC	***033***	***085***			
NECKERMANN	***099***	***050***	***139***	***120***	***136***
NEI	***049***				
NIKKAI	***060***				
NOBLEX	***015***				
NOBLIKO	***098***	***046***	***099***	***053***	***057***
NOGAMATIC	***028***	***039***	***043***	***145***	***081***
NOKIA	***001***	***140***	***058***	***105***	***109***
	122	***123***	***128***	***148***	***129***
	130	***134***	***135***	***083***	***089***
NORDMENDE	***028***	***032***	***039***	***043***	***145***
	131	***091***	***081***		
OCEANIC	***109***	***064***	***123***		
ONCEAS	***099***				
OPTONICA	***137***				
ORION	***158***	***059***	***118***	***068***	***127***
	090				
OSAKI	***060***				
OSIO	***077***				

TV Brands	***Code***				
OSUME	***087***				
OTTO VERSAND	***033***	***047***	***049***	***109***	***139***
P.T ACTTRON	***065***				
PAEL	***099***	***053***			
PANASONIC	***030***	***042***	***095***	***104***	***107***
	109	***121***	***126***		
PATHE CINEMA	***099***	***111***	***116***	***132***	
PERDIO	***060***				
PHILCO	***016***	***030***	***101***	***050***	***109***
	124	***079***	***132***	***136***	
PHILIPS	***009***	***010***	***013***	***018***	***024***
	099	***049***	***050***	***019***	***142***
	148	***149***	***078***	***088***	
PHOENIX	***099***	***053***	***109***	***111***	***125***
PHONOLA	***099***	***049***	***050***	***019***	***142***
	149	***078***			
PIONEER	***020***	***049***	***145***	***091***	
PRANDONI-PRINCE	***098***	***097***	***053***	***115***	***134***
PREMIER	***124***				
PRINCE	***098***	***097***	***053***	***134***	
PROTECH	***049***	***054***			
PYE	***099***	***049***	***050***	***019***	***142***
	148	***149***	***078***		
QUASAR	***046***	***097***	***051***	***053***	***077***
QUELLE	***047***	***099***	***100***	***049***	***053***
	055	***057***	***058***	***111***	***112***
	113	***114***	***118***	***123***	***073***
	074	***128***			
RADIOLA	***099***	***049***	***050***	***019***	***142***
	149	***078***			
RADIOMARELLI	***046***	***097***	***103***	***050***	***109***
	062	***127***	***132***		
RANK	***074***				
RBM	***074***				
REDIFFUSION	***062***	***123***	***134***		
REX	***096***	***144***	***019***	***141***	***110***
	069	***134***			
ROBOTRON	***048***	***050***			
RTF	***048***	***050***			
SABA	***028***	***031***	***032***	***037***	***039***
	040	***043***	***097***	***050***	***145***
	115	***120***	***086***	***091***	***081***

TV Brands	Code				
SAISHO	**158**	**099**	**118**	**119**	**068**
	090				
SALORA	**053**	**139**	**117**	**120**	**122**
	123	**125**	**128**	**135**	**083**
SAMBERS	**046**	**097**	**051**	**053**	**115**
	077				
SAMPO	**121**				
SEG	**046**				
SEI	**158**	**059**			
SAMSUNG	**015**	**026**	**099**	**054**	**077**
	136	**090**	**151**	**153**	
SANYO	**001**	**002**	**005**	**033**	**044**
	048	**060**	**113**	**118**	**071**
	054		**136**		
SBR	**049**	**142**	**148**	**149**	**088**
SCHAUB LORENZ	**001**	**058**	**109**	**122**	**123**
	128	**129**	**130**	**134**	
SCHNEIDER	**096**	**099**	**049**	**050**	**052**
	019	**141**	**109**	**142**	**125**
	149	**078**	**132**		
SELECO	**016**	**096**	**144**	**019**	**141**
	110	**069**	**134**		
SHARP	**033**	**087**	**137**		
SIAREM	**046**	**097**	**050**	**109**	**115**
SICATEL	**116**				
SIEMENS	**005**	**094**	**036**	**100**	**111**
	114	**087**			
SIERA	**099**	**049**	**050**	**019**	**142**
	149	**078**			
SILVER	**054**				
SINGER	**016**	**046**	**050**	**109**	
SINUDYNE	**158**	**046**	**050**	**059**	**109**
	127				
SONOKO	**049**	**090**			
SONY	**146**	**007**	**027**	**033**	**038**
	118				
STERN	**096**	**144**	**019**	**110**	**069**
	134				
TANDBERG	**133**				
TANDY	**099**	**060**	**137**		
TASHIKO	**002**	**033**			

TV Brands	Code				
TATUNG	099	060	063	065	115
	118				
TEC	096	099	132		
TELEAVIA	028	039	040	043	145
	091	081			
TELEFUNKEN	028	041	145	150	086
	091				
TELETECH	090				
TELEVIDEON	099	053	109	111	125
TENSAI	049				
TOSHIBA	004	016	033	070	074
TRANS CONTINENTS	098	097	053	134	
THOMSON	012	028	032	039	040
	043	145	091	081	
THORN-FERGUSON	014	040	041	054	150
	057	061	116	149	086
TOCOM	029				
TRIUMPH	158				
UHER	052	111	125		
ULTRA VOX	098	046	099	050	109
	120				
UNIVERSUM	092	034	054	077	
UNIVOX	116				
VEGAVOX	079				
VOXSON	050	134			
WATSON	111				
WATT RADIO	046	099	051	109	116
	127				
WEGA	033				
WHITE WESTINGHOUSE	099	111			
YOKO	099				
ZANUSSI	096	144	019	110	069
	134				
ZOPPAS	096	144	019	110	134

3. VCR Brands

VCR Brands	Code				
AKAI	122	133	142	152	132
ALBA	108	120			
AMSTRAD	111				
ANITSCH	109				
ARC EN CIEL	142	156	152		
ARISTONA	145	131			
ASA	118				
AWIA	111	142			
BAIRD	142	133			
BAUER. BOSCH	114	143			
BRIONVEGA	141				
BUSH	108	120			
BLAUPUNKT	114	143	155	131	154
	140				
BRANDT ELECTRONIQUE	142	156	152		
C.EDISON	141				
CANON	114				
CAPEHART	120				
CGE	111	142	152		
CONTINENTAL EDISON	142	156	152		
CRAIG	100	113			
CURTIS MATHES	119				
DAEWOO	101	120	121		
DAYTRON	120				
DECCA	111	142			
DEGRAAF	103	106	111	145	118
DUAL	142	152			
DUMONT	103	111	118		
DYNATECH	111				
EMERSON	102	110	111	119	125
FERGUSON	142	159	130	152	134
	136				
FIDELITY	111				
FINLANDIA	103	118			
FINLUX	103	106	111	118	
FISHER	100	103	105		

VCR Brands	*Code*				
FUNAI	***111***				
GE	***119***				
GENERAL	***114***				
GOLDSTAR	***104***	***162***			
GOODMANS	***108***	***111***	***146***		
GRAETZ	***141***	***142***	***156***	***150***	***152***
	138				
GRANADA	***103***	***105***	***118***		
GRUNDIG	***114***	***143***	***118***	***155***	***131***
	153	***154***			
HANSEATIC	***143***				
HARMAN-KARDON	***104***				
HIFIVOX	***142***	***156***	***152***		
HINARI	***102***	***108***	***124***	***127***	
HITACHI	***106***	***107***	***111***	***142***	***157***
IMPERIAL	***111***				
INGELEN	***142***	***156***	***152***	***138***	
INGERSOL	***127***				
ITT	***105***	***141***	***142***	***156***	***150***
	152	***133***	***138***		
JENSEN	***142***				
JVC	***142***	***156***	***160***	***130***	***152***
	163				
KENWOOD	***105***	***142***	***160***		
KRIESLER	***145***	***131***			
KUBA	***143***				
LLOYD	***111***				
LOEWE OPTA	***114***	***118***	***129***	***131***	
LOGIK	***108***	***127***			
LUXOR	***133***	***138***			
MAGNADYNE	***141***				
MAGNASONIC	***138***				
MAGNAVOX	***119***				
MARANTZ	***104***	***114***	***146***	***118***	***131***
MATUI	***110***	***125***	***127***		
MEMOREX	***100***	***103***	***105***	***111***	***145***
METZ	***114***	***143***	***131***	***154***	***137***

VCR Brands	**Code**				
MGA	**117**				
MINERVA	**155**	**154**			
MINOLTA	**106**	**107**			
MITSUBISHI	**160**	**117**	**149**		
MTC	**111**	**113**			
MULTITECH	**108**	**111**			
MURPHY	**111**				
NAONIS	**142**	**156**	**152**		
NATIONAL	**140**				
NEC	**104**	**142**	**160**	**152**	
NECKERMANN	**102**	**141**	**114**	**142**	**152**
NOGAMATIC	**142**	**156**	**152**		
NOKIA	**103**	**105**	**141**	**142**	**156**
	150	**152**	**133**	**138**	
NORDMENDE	**139**	**142**	**156**	**152**	**153**
	135				
OPTONICA	**145**	**146**			
ORION	**102**	**110**	**125**	**127**	
OSAKI	**111**				
OTTO VERAND	**143**				
P. CINEMA	**114**				
PALLADIUM	**141**	**114**			
PANASONIC	**123**	**151**	**140**		
PATHE MARCONI	**142**	**156**	**152**		
PENTAX	**106**	**107**			
PERDIO	**111**				
PHILIPS	**112**	**114**	**145**	**146**	**118**
	129	**131**			
PHONOLA	**114**	**145**	**118**	**129**	**131**
PIONEER	**160**				
PORTLAND	**120**				
PROLINE	**111**				
PYE	**114**	**145**	**118**	**129**	**131**
QUARTZ	**105**				
QUELLE	**102**	**144**	**154**		
RADIOLA	**145**	**131**			
RADIOMARELLI	**141**				

VCR Brands	Code				
RCA	119				
REALISTIC	100	103	105	111	113
	145	146			
REX	142	156	152		
SABA	139	142	156	152	135
SAISHO	102	110	125	127	
SALORA	105	117			
SAMSUNG	113	119	132	161	
SANSUI	142	160			
SANYO	100	103	105	125	138
SBR	118	129			
SCHAUB LORENZ	141	142	156	150	152
	138				
SCHNEIDER	108	111	145	131	
SEI-SINUDYNE	127				
SELECO	142	156	152		
SENTRA	120				
SHARP	145	146	1105	148	
SHINTOM	108				
SIEMENS	114	143	155	131	154
	138				
SIERA	145	131			
SINUDYNE	127				
SONY	144	115	116	126	128
STERN	142	156	152		
STS	106				
SUNKAI	125				
SYLVANIA	111	117			
SYMPHONIC	111	117			
TASHIKO	111				
TATUNG	111	142			
TEAC	111	142			
TEKNIKA	111				
TELEAVIA	142	156	152		
TELEFUNKEN	142	156	152		
TENOSAL	108				
THOMSON	142	156	152		

VCR Brands	**Code**				
THORN-FERGUSON	***139***	***142***	***159***	***130***	***152***
	134	***136***			
TOSHIBA	***101***	***142***	***156***	***117***	***158***
	152				
TOTELEVISION	***113***				
UHER	***142***				
ULTRA VOX	***141***				
UNITECH	***113***				
UNIVERSUM	***141***	***114***	***143***		
URANYA	***141***				
VECTOR	***104***				
VICTOR	***142***	***160***			
VIDITAL	***141***				
WESTING HOUSE	***141***				
WARDS	***119***				
YAMAHA	***104***	***142***			
ZANUSSI	***142***	***156***	***152***		
ZENDER	***152***				
ZOPPAS	***142***	***156***			

4. DVD Brands

DVD Brands	Code				
AIWA	002				
AKAI	007	044			
ALBA	036				
ANAM	074				
ANSONIC	152				
AMES	051				
APEX	003	011	025	037	039
	044	047	048	054	040
AUDIOSONIC	044				
A-TREMD	061				
BROKSONIC	000				
BULE SKY	158	036			
BUSH	067	044	000	152	
CAT	036				
CLASSIC	051				
CELESTIAL	158				
CENTREX	158				
CINEULTRA	036				
CONIA	158				
COMBRIDGE AUDIO	088				
CROWN	044				
CYBERCOM	152				
CYBERRHOME	061				
DAEWOO	005	045	052		
DAEWOO INTERNATIONAL	036				
DEC	036				
DENON	041	050			
DENVER	036				
DENZEL	083				
DIGITREX	011	158			
DIK	152				
DK DIGITAL	152				
DRAGON	152				
DUAL	083	152			
ELTA	004	010	044		
ENZER	083				
EMERSON	013	019	032	067	
FISHER	015				
FUNAI	019	032			
GE	044	062			
GOLDSTAR	013	067			
GOLEMANS	044				
GO-VIDEO	012	016	021		

DVD Brands	Code				
GRADIENTE	008				
HARMAN/KARDON	023				
HITEKER	011	158			
HOHER	152				
HITACHI	001	035	004	070	067
	083				
INTEGRA	057				
JEKEN	036				
JVC	014	028	067		
KENWOOD	036	041			
KENDO	036				
KISS	083				
KLH	044				
KONKA	042	049	056	063	
KOSS	008				
LASONIC	006				
LECSON	088				
LENCO	036	152			
LENOXX	044				
NEXIA	036				
LIFETEC	152				
LG	013	072	067	059	
LUXMAN	004	070			
MAGNAVOX	026	027			
MARANTZ	013	026	027		
MDS	036				
MEDION	152				
MEMOREX	018				
MICROSOFT	020				
MICROSTAR	152				
MINTEK	044				
MITAUBISHI	055				
MONYKA	083				
MUSTEK	051				
NAD	013	065			
NAKAMICHI	058				
NORDMENDE	152				
MBO	044				
NEUFUNK	083				
ONKYO	056				
OMNI	044	036			
OPTIMUS	001				
ORITRON	008				
PALSONIC	158	067			
PANASONIC	041	068			

DVD Brands	**Code**				
PACIFIC	***018***	***152***			
PHILIPS	***026***	***027***	***064***	***045***	
PHONOTREND	***036***				
PIONEER	***001***				
PROLINE	***008***	***158***	***085***		
PROSCAN	***062***				
PROSONIC	***036***				
RADIOSHACK	***038***	***066***	***067***		
RAITE	***083***				
REC	***067***				
REOC	***053***				
REVOY	***036***				
RCA	***038***	***044***	***062***	***066***	***067***
ROADSTAR	***067***	***044***	***036***		
ROTEL	***067***				
SAMSUNG	***012***	***021***	***070***	***071***	
SAMPO	***022***				
SANSUI	***000***				
SANYO	***015***				
SCOTT	***158***				
SEG	***029***	***083***			
SILVASCHNEIDER	***152***				
SHARP	***020***	***067***			
SHANGHAI	***158***				
SHERWOOD	***009***	***073***			
SHINCO	***044***				
SINGER	***044***				
SM ELECTRONIC	***044***				
SONY	***033***	***034***	***004***	***070***	
SOUNDWORKS	***088***				
SYLVANIA	***019***	***032***			
SYLMPHONIC	***019***	***032***			
SVA	***158***				
TEAC	***001***	***067***			
TECHNICS	***041***	***068***			
TEASAI	***044***				
TEVION	***018***	***031***	***046***	***053***	***060***
THETA DIGITAL	***001***				
TOSHIBA	***000***	***017***	***024***	***026***	
TOKAI	***083***				
UMAX	***044***				
UNITED	***035***				
UNIVERSUM	***067***				
VOXSON	***152***				
WELKIN	***152***				

DVD Brands	***Code***				
WESDER	***036***				
WHARFEDALE	***059***	***085***	***088***		
WINDY SAM	***040***	***070***			
XMS	***067***				
YAMAHA	***041***	***043***			
YAMAKAWA	***030***	***083***			
ZENITH	***068***	***013***	***069***	***067***	

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